



Global Edge[®] Integrated Manufacturing Demonstration Guide

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Global Edge Integrated Manufacturing (Software Modules)

Global Edge[®] Integrated Manufacturing is an automated workflow system that provides capabilities to automate the quoting, engineering, and manufacturing workflow process. *Global Edge[®] Integrated Manufacturing* includes the following integrated software modules:

- Base System / Engineering Assistant Module
- SolidWorks CAD Interface Module
- ERP / MES Interface Module
- Outlook Interface Module
- Integrated Shop Floor Module
- Integrated Financials Module



- Automated Production Work Queue
- Manufacturability Testing
- Automated CAM Bend Program Generation



SolidWorks CAD

Interface Module

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Global Edge Integrated Manufacturing (Software Modules – Continued ...)

Global Edge[®] Integrated The ERP / MES Interface Module includes the following: DC Manufacturing Two-Way Integration with ERP / MES Systems Daily Production Order Processing ERP / MES Integrated Scheduling Between ERP and MES Interface Module Industry 4.0 / 5.0 Shop Floor / IoT (Internet of Things) Integration Global Edge[®] Integrated The **Outlook Interface Module** includes the following: LDC Manufacturing Automated Capturing of Incoming RFQ's Automated Management and Storage of Customer **Outlook Interface Documents & Specifications** Automated Management of Sales Opportunities Module Automated Sales Quote / CRM Workflow Global Edge[®] Integrated The Integrated Shop Floor Module includes the following: LDC Manufacturing **Job / Work Order Management** Critical Path Ordering Integrated Shop Material Requirements Planning Floor Module Scheduling / Capacity Planning Production Reporting / Job Costing **Global Edge**[®] Integrated The Integrated Financials Module includes the following: LDC Manufacturing Order Entry / Invoicing / Professional Billing Accounts Receivable / Payable / Purchase Order Integrated Inventory Management / Shipping & Receiving Financials Module General Ledger / Bank Account Payroll Time & Attendance

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Global Edge Integrated Manufacturing Demonstration Outline

Global Edge[®] **Integrated Manufacturing** is designed as an automated workflow system designed to prepare information for the shop floor including the manufacturability testing of sheet metal parts to help eliminate shop floor errors before leaving engineering.

The following outlines the steps the illustrate the capabilities of the *Global Edge*[®] *Integrated Manufacturing*:

Demo Section 1: ERP / MES Interface (Optional)

- 1.1 Automated ERP Download / Upload
- \circ 1.2 ERP / MES / Shop Floor Integration
- 1.3 Data Mapping

Demo Section 2: SolidWorks CAD Interface / Manufacturability Testing

- o 2.1 Single Sheet Metal Part Processing / Manufacturability Testing
- 2.2 Assembly Model Processing / Manufacturability Testing
- o 2.3 Sheet Metal Part Batch Processing / Manufacturability Testing

Demo Section 3: Document Interface / Quoting

- o 3.1 Outlook Interface / Incoming Information
- o 3.2 DXF Flat File Processing / Manufacturability Testing
- $\circ~$ 3.3 Automated Sales Quote / Routing Generation

Demo Section 4: Engineering Management

- o 4.1 Bill of Materials Management / Product Configuration
- o 4.2 Document Management / CAD Interface

Demo Section 5: Integrated Manufacturing

- o 5.1 Automated Job Build / Scheduling
- \circ 5.2 Workstation Screen / Load Balancing / Schedule Export
- 5.3 Production Dashboard
- o 5.4 Shop Floor Data Collection / IoT (Internet of Things) Connectivity
- 5.5 Automated Production ERP Upload

Demo Section 6: Integrated Financials

- o 6.1 Order Entry / Invoicing / Accounts Receivable
- o 6.2 Accounts Payable / Purchase Order
- o 6.3 Inventory Management
- o 6.4 General Ledger / Bank Account
- o 6.5 Payroll Time & Attendance



Global Edge Base System / Engineering Assistant Overview

Global Edge® Base System / Engineering Assistant module is an innovative and powerful Virtual Engineering Assistant designed to automate labor-intensive engineering and manufacturing workflow tasks to provide **"The Next Big Productivity Advancement in Engineering"**. **Global Edge® Base System / Engineering Assistant** module helps your engineering team to quickly generate sales quotes and process engineering orders, including preparation of accurate and timely information for the shop floor. This advanced software functionality includes:

- Automated CAD Part / Model Analysis: Eliminates the manual analysis of CAD part parameters to help drive accurate and timely quoting including automated routing generation.
- Manufacturability Testing / Design For Manufacturing: Eliminates and reduces shop floor errors with the manufacturability testing of parts before they leave engineering.
- Automated Sheet Metal Batch Unfolding (requires SolidWorks CAD Interface Module): Automates the batch unfolding of 3D CAD sheet metal parts to DXF Flat Files that are adjusted in size based on material, thickness, and bend radius.
- Automated Shop Floor Data Preparation: Provides automated generation of shop floor CAM bending programs based on 3D CAD Part Parameters.





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Section 1: ERP Interface (Optional)

Global Edge[®] *Integrated Manufacturing* includes a dynamic ERP interface that provides two-way integration between most ERP systems with manufacturing and the shop floor. The sections that illustrate these capabilities include:

- 1.1 Automated ERP Download / Upload
- 1.2 ERP / MES / Shop Floor Integration
- 1.3 Data Mapping

ERP Interface Overview

The following is an overview of the steps within this section:

- <u>1.1 Automated ERP Download / Upload</u>: The steps within this section illustrate how the *Global Edge* software integrates directly with an ERP system and directly exchange information with engineering, manufacturing and the shop floor with capabilities that include:
 - Automated ERP Order Download
- <u>1.2 ERP / MES / Shop Floor Integration</u>: The steps within this section illustrate how the *Global Edge* software uploads production information from the shop floor back to ERP with functionality that includes:
 - ERP Production Upload
- <u>1.3 Data Mapping</u>: The steps within this section illustrate how the *Global Edge* software is setup to map data from various MES systems to integrate with most ERP software with functionality that includes:
 - Define ERP System Connection
 - Define ERP Table Data Maps
 - XML File Generation / Exchange

Sample Demontration Data (ERP Download)

The following is the sample data that is downloaded from ERP that populates the **Global Edge** database for the purposes of demonstration:

	TABLE #	TABLE NAME	DESCRIPTION	LOAD FILE	PAGE
ERP	H-537	work_queue_batch	Work Queue Batch Table	H-537-dem_wkqb.unl	2
ERP	H-507	work_queue	Work Queue Table	H-507-dem_wrkq.unl	2
ERP	R-270	inventory	Inventory Item Master Table	R-270-dem_invt.unl	3
ERP	C-236	customer	Customer Table	C-236-dem_cust.unl	5
ERP	Q-221	quote	Sales Quote Table	Q-221-dem_quot.unl	5
ERP	Q-223	quote_item	Sales Quote Item Table	Q-223-dem_quti.unl	5
ERP	Q-226	quote_qty	Sales Quote Quantity Table	Q-226-dem_quqt.unl	6
ERP	O-312	orders	Sales Orders Table	O-312-dem_ordr.unl	6
ERP	O-302	ord_item	Sales Order Items Table	O-302-dem_ordi.unl	7
ERP	J-361	job	Job Order Table	J-361-dem_jobunl	7
ERP	J-424	work_pack	Work Pack Table	J-424-dem_wrkp.unl	7



Sample Work Queue Batch Table (H-537)

Global Edge[®] *Engineering Assistant* provides an automated workflow that is includes the ability to define work queue batches that are comprised of workflow tasks that includes the processing of CAD files, exchange of information between CAD, ERP, and MES / Scheduling software. The batches that have been defined for demonstration purposes include the following:

BATCH #	LOGIN	DESCRIPTION	BATCH DATE / TIME	PENDING COUNT
1	ldc	Batch to Process Utility Cabinet Order	TODAY	10
2	ldc	Batch to Process Light Fixture Assembly	TODAY	7
3	ldc	Batch to Process Demo Parts	TODAY	5
4	ldc	Batch to Process DXF Flat Files	TODAY	5
5	ldc	Batch to Process Bend Process Test Parts	TODAY	15

Sample Work Queue Table (H-507)

The "Work Queue" table is comprised of Workflow Tasks that are included with each of the previously "Work Queue Batches" that includes the following:

Work Queue Batch #: 1 (Batch to Process Utility Cabinet Order)

TASK #	BATCH #	JOB #	ROW #	QUOTE #	TASK DATE	TYPE	TASK NOTE	FROM	PROG.	SRC.
1001	1		1		TODAY	С	Create DXF Files for PART #: SLD-002-WRAP-325616-0001	ERP	SLD	
1002	1		1		TODAY	С	Create DXF Files for PART #: SLD-003-CAB-BOT-5616-0001	ERP	SLD	
1003	1		1		TODAY	С	Create DXF Files for PART #: SLD-004-CAB-TOP-5616-0001	ERP	SLD	
1004	1		1		TODAY	С	Create DXF Files for PART #: SLD-015-FILL-PNL-1627-0001	ERP	SLD	
1005	1		1		TODAY	С	Create DXF Files for PART #: SLD-017-SPINE-CT-32-0001	ERP	SLD	
1006	1		1		TODAY	С	Create DXF Files for PART #: SLD-018-SPINE-LT-32-0001	ERP	SLD	
1007	1		1		TODAY	С	Create DXF Files for PART #: SLD-019-SPINE-RT-32-0001	ERP	SLD	
1008	1	1004	1		TODAY	С	Build Job for PART #: SLD-001-BODY-325616-0001	ERP	MRP	1001

Work Queue Batch #: 2 (Batch to Process Light Fixture Assembly)

TASK #	BATCH #	JOB #	ROW #	QUOTE #	TASK DATE	TYPE	TASK NOTE	FROM	PROG.	SRC.
1009	2		1		TODAY	С	Create DXF Files for PART #: LIGHT-01-LENSE-FRAME	ERP	SLD	
1010	2		1		TODAY	с	Create DXF Files for PART #: LIGHT-03-LENSE-BRACKET	ERP	SLD	
1011	2		1		TODAY	C	Create DXF Files for PART #: LIGHT-04-HOUSING-FLANGE	ERP	SLD	
1012	2		1		TODAY	С	Create DXF Files for PART #: LIGHT-05-LENSE-RET-BRKT	ERP	SLD	
1013	2		1		TODAY	с	Create DXF Files for PART #: LIGHT-06-FIXTURE-HOUSING	ERP	SLD	
1014	2		1		TODAY	с	Create DXF Files for PART #: LIGHT-07-YOKE-BRACKET	ERP	SLD	
1015	2	1005	1		TODAY	С	Build Job for PART #: LIGHT-00-LIGHT	ERP	MRP	1003

Work Queue Batch #: 3 (Batch to Process Demo Parts)

TASK #	BATCH #	JOB #	ROW #	QUOTE #	TASK DATE	TYPE	TASK NOTE	FROM	PROG.	SRC.
1016	3		1	1001	TODAY	Q	Create DXF File for PART #: DEM-01-APRON	ERP	SLD	
1017	3		2	1001	TODAY	Q	Create DXF File for PART #: DEM-02-LOAD-CTR-BOX	ERP	SLD	
1018	3		3	1001	TODAY	Q	Create DXF File for PART #: DEM-03-BOTTOM-DLH	ERP	SLD	
1019	3		4	1001	TODAY	Q	Create DXF File for PART #: DEM-04-HOUSING	ERP	SLD	
1020	3		5	1001	TODAY	Q	Create DXF File for PART #: DEM-05-PANEL	ERP	SLD	
1021	3	1006	1		TODAY	Q	Build Job for Demonstration Parts	ERP	MRP	1009



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Work Queue Batch #: 4 (Batch to Process DXF Flat Files)

TASK #	BATCH #	JOB #	ROW #	QUOTE #	TASK DATE	TYPE	TASK NOTE	FROM	PROG.	SRC.
1022	4		1		TODAY	С	Import and Test PART #: DXF-01-APRON		DOC	
1023	4		2		TODAY	С	Import and Test PART #: DXF-02-LOAD-CTR-BOX		DOC	
1024	4		3		TODAY	С	Import and Test PART #: DXF-03-BOTTOM-DLH		DOC	
1025	4		4		TODAY	С	Import and Test PART #: DXF-04-HOUSING		DOC	
1026	4		5		TODAY	С	Import and Test PART #: DXF-05-PANEL		DOC	

Work Queue Batch #: 5 (Batch to Process Bend Process Test Parts)

TASK #	BATCH #	JOB #	ROW #	QUOTE #	TASK DATE	TYPE	TASK NOTE	FROM	PROG.	SRC.
1027	5		1		TODAY	С	Import and Test PART #: BP-01-GAL-G60-06350-064		SLD	
1028	5		2		TODAY	С	Import and Test PART #: BP-02-GAL-G60-07850-079		SLD	
1029	5		3		TODAY	С	Import and Test PART #: BP-03-GAL-G60-10840-108		SLD	
1030	5		4		TODAY	с	Import and Test PART #: BP-04-SS-304-4-05000-025		SLD	
1031	5		5		TODAY	С	Import and Test PART #: BP-05-SS-304-4-06250-050		SLD	
1032	5		6		TODAY	С	Import and Test PART #: BP-06-SS-304-4-07812-125		SLD	
1033	5		7		TODAY	с	Import and Test PART #: BP-07-SS-316-2B-07812-020		SLD	
1034	5		8		TODAY	с	Import and Test PART #: BP-08-SS-316-2B-09370-030		SLD	
1035	5		9		TODAY	С	Import and Test PART #: BP-09-SS-316-2B-14062-120		SLD	
1036	5		10		TODAY	С	Import and Test PART #: BP-10-AL-5052-H32-05082-100		SLD	
1037	5		11		TODAY	С	Import and Test PART #: BP-11-AL-5052-H32-06408-105		SLD	
1038	5		12		TODAY	С	Import and Test PART #: BP-12-AL-5052-H32-08081-125		SLD	
1039	5		13		TODAY	С	Import and Test PART #: BP-13-CRS-CRS-04780-050		SLD	
1040	5		14		TODAY	С	Import and Test PART #: BP-14-CRS-CRS-07470-070		SLD	
1041	5		15		TODAY	С	Import and Test PART #: BP-15-CRS-CRS-13450-060		SLD	

Sample Inventory Item Master Table (R-270)

The "*Inventory Item Master*" table is comprised of the parts that are processed and stored within the *Global Edge* system including part numbers that are exchanged with CAD Files, ERP, MES, and other third-party systems. The following are the parts that have been defined for demonstration purposes:

Part Numbers Associated with Processing of Utility Cabinet Assembly (Work Queue Batch #1)

PART#	DESCRIPTION	DESCRIPTION 2	TYPE	CAT	MTL.	UOM
SLD-000-CAB-CRS-325616-0001	UTILITY CABINET		ASM	SHT	CRS	lbs
SLD-001-BODY-325616-0001	CABINET BODY		ASM	SHT	CRS	EA
SLD-002-WRAP-325616-0001	CABINET BODY WRAP	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-003-CAB-BOT-5616-0001	CABINET BODY BOTTOM	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-004-CAB-TOP-5616-0001	CABINET BODY TOP	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-015-FILL-PNL-1627-0001	CABINET FILL PANEL	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-016-HORZ-DIV-55-0001	CABINET HORIZONTAL DIVIDER		CMP	SHT	5052-H32	EA
SLD-017-SPINE-CT-32-0001	CABINET SPINE - CENTER	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-018-SPINE-LT-32-0001	CABINET SPINE - CORNER - LEFT	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-019-SPINE-RT-32-0001	CABINET SPINE - CORNER - RIGHT	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
SLD-020-VERT-DIV-BOT-15-0001	CABINET VERTICAL DIVIDER - BOTTOM		CMP	SHT	5052-H32	EA
SLD-021-VERT-DIV-TOP-16-0001	CABINET VERTICAL DIVIDER - TOP		CMP	SHT	5052-H32	EA



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Part Numbers Associated with Processing of Light Fixture Assembly (Work Queue Batch #2)

PART #	DESCRIPTION	DESCRIPTION 2	TYPE	CAT	MTL.	UOM
LIGHT-00-LIGHT	LIGHT FIXTURE ASSEMBLY		PRD	LFX		EA
LIGHT-01-LENSE-FRAME	LIGHT FIXTURE LENSE FRAME		CMP	SHT	5052-H32	EA
LIGHT-02-LENSE	LIGHT FIXTURE LENSE		CMP	SHT		EA
LIGHT-03-LENSE-BRACKET	LIGHT FIXTURE LENSE BRACKET		CMP	SHT	5052-H32	EA
LIGHT-04-HOUSING-FLANGE	LIGHT FIXTURE HOUSING FLANGE		CMP	SHT	5052-H32	EA
LIGHT-05-LENSE-RET-BRKT	LIGHT FIXTURE LENSE RET. BRACKET		CMP	SHT	5052-H32	EA
LIGHT-06-FIXTURE-HOUSING	LIGHT FIXTURE HOUSING		CMP	SHT	5052-H32	EA
LIGHT-07-YOKE-BRACKET	LIGHT FIXTURE YOKE BRACKET		CMP	SHT	5052-H32	EA
LIGHT-08-DOOR-GASKET	LIGHT FIXTURE DOOR GASKET		CMP	SHT		EA
LIGHT-09-FRAME-CHANNEL	LIGHT FIXTURE FRAME CHANNEL		CMP	SHT	G60	EA
LIGHT-10-BOLT	LIGHT FIXTURE BOLT		CMP	SHT	304-4	EA
LIGHT-11-NUT	LIGHT FIXTURE NUT		CMP	SHT	304-4	EA

Part Numbers Associated with 5 Demonstration Parts (Work Queue Batch #3)

PART #	DESCRIPTION	DESCRIPTION 2	TYPE	CAT	MTL.	UOM
DEM-01-APRON	APRON	18 GA - Thick: 0.05000 - Bend Rad: 0.025	CMP	SHT	304-4	EA
DEM-02-LOAD-CTR-BOX	LOAD CENTER BOX	16 GA - Thick: 0.06250 - Bend Rad: 0.025	CMP	SHT	304-4	EA
DEM-03-BOTTOM-DLH	BOTTOM DISPLAY LIGHT HOUSING	18 GA - Thick: 0.05000 - Bend Rad: 0.025	CMP	SHT	304-4	EA
DEM-04-HOUSING	SHEET METAL HOUSING	14 GA - Thick: 0.07812 - Bend Rad: 0.125	CMP	SHT	304-4	EA
DEM-05-PANEL	SHEET METAL PANEL	16 GA - Thick: 0.05980 - Bend Rad: 0.070	CMP	SHT	CRS	EA

Part Numbers Associated with DXF Files to be Processed (Work Queue Batch #4)

PART #	DESCRIPTION	DESCRIPTION 2	TYPE	CAT	MTL.	UOM
DXF-01-APRON	APRON	16 GA - Thick: 0.06250 - Bend Rad: 0.025	CMP	SHT	304-4	EA
DXF-02-LOAD-CTR-BOX	LOAD CENTER BOX	14 GA - Thick: 0.07812 - Bend Rad: 0.025	CMP	SHT	304-4	EA
DXF-03-BOTTOM-DLH	BOTTOM DISPLAY LIGHT HOUSING	16 GA - Thick: 0.05082 - Bend Rad: 0.025	CMP	SHT	5052-H32	EA
DXF-04-HOUSING	SHEET METAL HOUSING	10 GA - Thick: 0.13450 - Bend Rad: 0.125	CMP	SHT	CRS	EA
DXF-05-PANEL	SHEET METAL PANEL	16 GA - Thick: 0.06350 - Bend Rad: 0.070	CMP	SHT	G60	EA

Part Numbers Associated with Bend Process Test Batch (Work Queue Batch #5)

PART #	DESCRIPTION	DESCRIPTION 2	TYPE	CAT	MTL.	UOM
BP-01-GAL-G60-06350-064	BEND PROCESS TEST PART 01	16 GA - Thick: 0.06350 - Bend Rad: 0.064	CMP	SHT	G60	EA
BP-02-GAL-G60-07850-079	BEND PROCESS TEST PART 02	14 GA - Thick: 0.07850 - Bend Rad: 0.079	CMP	SHT	G60	EA
BP-03-GAL-G60-10840-108	BEND PROCESS TEST PART 03	12 GA - Thick: 0.10840 - Bend Rad: 0.108	CMP	SHT	G60	EA
BP-04-SS-304-4-05000-025	BEND PROCESS TEST PART 04	18 GA - Thick: 0.05000 - Bend Rad: 0.025	CMP	SHT	304-4	EA
BP-05-SS-304-4-06250-050	BEND PROCESS TEST PART 05	16 GA - Thick: 0.06250 - Bend Rad: 0.050	CMP	SHT	304-4	EA
BP-06-SS-304-4-07812-125	BEND PROCESS TEST PART 06	14 GA - Thick: 0.07812 - Bend Rad: 0.125	CMP	SHT	304-4	EA
BP-07-SS-316-2B-07812-020	BEND PROCESS TEST PART 07	14 GA - Thick: 0.07812 - Bend Rad: 0.020	CMP	SHT	316-2B	EA
BP-08-SS-316-2B-09370-030	BEND PROCESS TEST PART 08	13 GA - Thick: 0.09370 - Bend Rad: 0.030	CMP	SHT	316-2B	EA
BP-09-SS-316-2B-14062-120	BEND PROCESS TEST PART 09	10 GA - Thick: 0.14062 - Bend Rad: 0.120	CMP	SHT	316-2B	EA
BP-10-AL-5052-H32-05082-100	BEND PROCESS TEST PART 10	16 GA - Thick: 0.05082 - Bend Rad: 0.100	CMP	SHT	5052-H32	EA
BP-11-AL-5052-H32-06408-105	BEND PROCESS TEST PART 11	14 GA - Thick: 0.06408 - Bend Rad: 0.105	CMP	SHT	5052-H32	EA
BP-12-AL-5052-H32-08081-125	BEND PROCESS TEST PART 12	12 GA - Thick: 0.08081 - Bend Rad: 0.125	CMP	SHT	5052-H32	EA
BP-13-CRS-CRS-04780-050	BEND PROCESS TEST PART 13	18 GA - Thick: 0.04780 - Bend Rad: 0.050	CMP	SHT	CRS	EA
BP-14-CRS-CRS-07470-070	BEND PROCESS TEST PART 14	14 GA - Thick: 0.07470 - Bend Rad: 0.070	CMP	SHT	CRS	EA
BP-15-CRS-CRS-13450-060	BEND PROCESS TEST PART 15	10 GA - Thick: 0.13450 - Bend Rad: 0.060	CMP	SHT	CRS	EA

Sample Customer Table (C-236)

The "Customer" table is comprised of the following customer record(s) that have been defined for demonstration purposes:

Customer Records

CUST #	LOC.#	COMPANY NAME	CONTACT NAME	ADDRESS 1	CITY	ST	ZIP
1001	1	ABC MANUFACTURING	Robert Smith, V.P. of Engineering	5000 West Industrial Way	Milwaukee	WI	55555

Sample Sales Quote Table (Q-221)

The "Quote" table includes the following Sales Quote Header that has been added for demonstration purposes as downloaded by the Global Edge ERP Interface:

QUOTE #	QUOTE DESCRIPTION	QUOTE DATE	VALID DATE	QUOTE TOTAL
1001	Fabricated Sheet Metal Parts	TODAY	TODAY + 30	\$28,429.43

Sample Sales Quote Item Table (Q-223)

The "Quote Item" table includes the following Sales Quote Items for the above Sales Quote Header that has been added for demonstration purposes as downloaded by the Global Edge ERP Interface:

QUOTE #	ROW #	PART #	DESCRIPTION	QTY	UOM	UNIT	EXTENDED
1001	1	DEM-01-APRON	APRON	50.0000	EA	\$173.6969	\$8,684.85
1001	2	DEM-02-LOAD-CTR-BOX	LOAD CENTER BOX	25.0000	EA	\$198.0316	\$4,950.79
1001	3	DEM-03-BOTTOM-DLH	BOTTOM DISPLAY LIGHT HOUSING	35.0000	EA	\$168.2720	\$5,889.52
1001	4	DEM-04-HOUSING	SHEET METAL HOUSING	10.0000	EA	\$210.9056	\$2,109.06
1001	5	DEM-05-PANEL	SHEET METAL PANEL	40.0000	EA	\$165.5053	\$6,620.21



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Sample Sales Quote Quantity Table (Q-226)

The "Quote Quantity" table includes Quantity Pricing for each of the demonstration Sales Quote Items for the above sales quote that is downloaded by the Global Edge ERP Interface:

QUOTE #	ROW #	ORDER #	QTY	UOM	UNIT	LIST	UNIT	EXTENDED
1001	1	1	1.0000	EA	173.6969	208.4363	208.4363	208.44
1001	1	2	10.0000	EA	44.0969	52.9163	52.9163	529.16
1001	1	3	50.0000	EA	32.5769	39.0923	39.0923	1954.61
1001	1	4	100.0000	EA	31.1369	37.3643	37.3643	3736.43
1001	1	5	250.0000	EA	30.2729	36.3275	36.3275	9081.87
1001	2	1	1.0000	EA	198.0316	237.6379	237.6379	237.64
1001	2	2	10.0000	EA	68.4316	82.1179	82.1179	821.18
1001	2	3	50.0000	EA	56.9116	68.2939	68.2939	3414.70
1001	2	4	100.0000	EA	55.4716	66.5659	66.5659	6656.59
1001	2	4	250.0000	EA	54.6076	65.5291	65.5291	16382.28
1001	3	1	1.0000	EA	168.2720	201.9264	201.9264	201.93
1001	3	2	10.0000	EA	38.6720	46.4064	46.4064	464.06
1001	3	3	50.0000	EA	27.1520	32.5824	32.5824	1629.12
1001	3	4	100.0000	EA	25.7120	30.8544	30.8544	3085.44
1001	3	5	250.0000	EA	24.8480	29.8176	29.8176	7454.40
1001	4	1	1.0000	EA	210.9056	253.0867	253.0867	253.09
1001	4	2	10.0000	EA	81.3056	97.5667	97.5667	975.67
1001	4	3	50.0000	EA	69.7856	83.7427	83.7427	4187.14
1001	4	4	100.0000	EA	68.3456	82.0147	82.0147	8201.47
1001	4	5	250.0000	EA	67.4816	80.9779	80.9779	20244.48
1001	5	1	1.0000	EA	165.5053	198.6064	198.6064	198.61
1001	5	2	10.0000	EA	35.9053	43.0864	43.0864	430.86
1001	5	3	50.0000	EA	24.3853	29.2624	29.2624	1463.12
1001	5	4	100.0000	EA	22.9453	27.5344	27.5344	2753.44
1001	5	5	250.0000	EA	22.0813	26.4976	26.4976	6624.39

Sample Sales Order Table (O-312 "orders")

The "Orders" table includes the following Sales Order Headers that have been added for demonstration purposes as downloaded by the *Global Edge ERP Interface* including a direct link to specific Job Orders:

CUST #	ORDER #	JOB #	ORDER DATE	REQ. SHIP DATE	TOTAL	ORDER DESCRIPTION
1001	1001	1004	TODAY	TODAY + 14	\$0.00	Sales Order for Cabinet Body (ERP Download)
1001	1002	1005	TODAY	TODAY + 14	\$0.00	Sales Order for Light Fixture (ERP Download)
1001	1003	1006	TODAY	TODAY + 14	\$0.00	Sales Order for Demonstration Parts (ERP Download)



Sample Sales Orders Item Table (O-302 "ord_item")

The "Order Items" table is comprised of the Sales Order Items for the above sales orders added for demonstration purposes as downloaded by the Global Edge ERP Interface:

Sales Order Items (Sales Order #: 1001)

ORDER #	LINE ITEM	PART #	DESCRIPTION	REQ. SHIP DATE	QTY	UOM
1001	1	SLD-001-BODY-325616-0001	CABINET BODY	TODAY + 14	5.0000	EA

Sales Order Items (Sales Order #: 1002)

ORDER #	LINE ITEM	PART #	DESCRIPTION	REQ. SHIP DATE	QTY	UOM
1002	1	LIGHT-00-LIGHT	LIGHT FIXTURE ASSEMBLY	TODAY + 14	10.0000	EA

Sales Order Items (Sales Order #: 1003)

ORDER #	LINE ITEM	PART #	DESCRIPTION	REQ. SHIP DATE	QTY	UOM
1003	1	DEM-01-APRON	APRON	TODAY + 14	15.0000	EA
1003	2	DEM-02-LOAD-CTR-BOX	LOAD CENTER BOX	TODAY + 14	20.0000	EA
1003	3	DEM-03-BOTTOM-DLH	BOTTOM DISPLAY LIGHT HOUSING	TODAY + 14	25.0000	EA
1003	4	DEM-04-HOUSING	SHEET METAL HOUSING	TODAY + 14	30.0000	EA
1003	5	DEM-05-PANEL	SHEET METAL PANEL	TODAY + 14	35.0000	EA

Sample Job Order Table (J-361 "job")

The "Job" table is comprised of the Job Order Headers added for demonstration purposes as downloaded by the Global Edge ERP Interface:

JOB #	TYPE	JOB DATE	REQ. DATE	SCH. START	DESCRIPTION
1001	TEMPLATE				SHEET METAL PART FABRICATION
1002	TEMPLATE				SHEET METAL PARTS & ASSEMBLIES
1003	TEMPLATE				CUSTOM JOB TEMPLATE
1004	ORDER	TODAY	TODAY + 14	TODAY + 2	FABRICATE UTILITY CABINET
1005	ORDER	TODAY	TODAY + 14	TODAY + 2	FABRICATE LIGHT FIXTURE
1006	ORDER	TODAY	TODAY + 14	TODAY + 2	DEMO SHEET METAL PARTS

Sample Work Pack Table (J-424 "work_pack")

The "Work Pack" table is designed to divide Job Orders into specific work packs such as a work pack for fabrication and the assembly of components. The following are the Work Packs that have been define for the three Template Jobs defined above and are downloaded by the *Global Edge ERP Interface*:

JOB #	W.P. #	SCH. START	SCH. END	START DATE	END DATE	% OF JOB	% COMPLETE	JOB DESCRIPTION
1001	1					100	0	Sheet Metal Components
1002	1					70	0	Sheet Metal Components
1002	2					30	0	Assembly Work Pack
1003	1					100	0	Template Work Pack

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1.1 – Automated ERP Download / Upload

This section includes the demonstration data that has been established to illustrate the information exchange capabilities provided by the *Global Edge ERP / MES Interface*:

These steps illustrate the download of order information from an ERP system:

Workflow Steps

1. Launch the *Global Edge ERP / MES Interface* to display the following screen:

👼 Global Edge ERP / MES	Interface		-					
File View Tools H	lelp							
Connections			Operations Log	j: None 💌				
# Description	Connect	tion Type Databa	se Type Enabled	Connected				
1 Global Edge Connec	tion Databas	e Informix	Yes	Yes				
2 Web Portal Connect	ion Databas	se SQL	Yes	No				
3 Generic ERP Conne	ction XML	File	Yes	Yes				
4 MES / Schedule Cor	nnection XML	File	Yes	Yes				
5 External Quoting Dat	abase Databas	se SQL	Yes	No				
Timing	Ena	able Connec	t Disable	Disconnect				
Name Ma	ps Events O	ccurrences Last O	ccurrence	Status				
Real-Time Transfers 2	1 0	1/1/00	01 12:00:00 AM	Active				
Setup Transfers 3	1 0	1/1/00	01 12:00:00 AM	Active				
Once Daily 0	1 0	1/1/00	01 12:00:00 AM	Active				
Maps			Transfer	Activate				
Maps	Source		Last Transfer	Transfers				
Generic ERP Download	Generic ERP Co	nnection	9/1/2023 12:00:00	0				
Generic ERP Upload	Generic ERP Co	nnection	9/1/2023 12:00:00 .					
Generic Hot Order Downlo.	Generic ERP Co	nnection	9/1/2023 12:00:00 .	0				
MES / Schedule Download	MES / Schedule	Connection	9/1/2023 12:00:00 .	0				
MES / Schedule Upload	MES / Schedule	Connection	9/1/2023 12:00:00 .	0				
Operation: Colur	Operation: Column Translation loading Complete Run Source							
Logged in as: 'Idc' since: Fri	day, January 31, 2	025 12:10:46	Database:	globaledge				

2. Highlight "Generic ERP Download" data map followed by "Transfer" option to initiate download of ERP order information.

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1.2 - ERP / MES / Shop Floor Integration

These steps illustrate the upload of production information back to an ERP system:

Workflow Steps

1. Launch the Global Edge ERP Interface to display the following screen:

饉 Global Edge ERP / MES I	nterface	-	
File View Tools He	elp		
Connections		Operations Lo	og: None 💌
# Description	Connection Type	Database Type Enabled	Connected
1 Global Edge Connect	ion Database I	Informix Yes	Yes
2 Web Portal Connection	on Database S	SQL Yes	No
3 Generic ERP Connect	tion XML	File Yes	Yes
4 MES / Schedule Con	nection XML	File Yes	Yes
5 External Quoting Data	abase Database S	SQL Yes	No
Timing	Enable	Connect Disable	Disconnect
Name Map	s Events Occurrences	Last Occurrence	Status
Real-Time Transfers 2	1 0	1/1/0001 12:00:00 AM	Active
Setup Transfers 3	1 0	1/1/0001 12:00:00 AM	Active
Once Daily 0	1 0	1/1/0001 12:00:00 AM	Active
Maps		Transfer	Activate
Maps	Source	Last Transfer	Transfers
Generic ERP Download	Generic ERP Connection	9/1/2023 12:00:00	0
Generic ERP Upload	Generic ERP Connection	9/1/2023 12:00:00	0
Generic Hot Order Downlo	Generic ERP Connection	9/1/2023 12:00:00	0
MES / Schedule Download	MES / Schedule Connection	9/1/2023 12:00:00	0
MES / Schedule Upload	MES / Schedule Connection	9/1/2023 12:00:00	0
Operation: Colum	n Translation loading Complet	e	Run Source
Logged in as: 'Idc' since: Frid	ay, January 31, 2025 12:10:46	Databas	e: globaledge

2. Highlight "Generic ERP Upload" data map followed by "Transfer" option to initiate upload of production information back to ERP system.

Sample Scheduler Order Import / Expot

XML Files

The following is an example XML file with Order data:

<Root> <ORDER NUMBER="12345" DUE="2008-08-31T22:30:00" CUSTOMER="ABC" HOLD="2008-08-30T00:00: NOTES="MISC NOTES FIELD"> <PART NAME="18-08000-12" QTY="100" NOTES="PART NOTES"></PART> <PART NAME="18-08000-14.PRT" QTY="300" NOTES="PART NOTES"></PART> <PART NAME="010906" QTY="3"></PART> </PART NAME="010906" QTY="3"></PART> </PART NAME="12346" DUE="2008-08-31T23:00:00" HOLD="2008-08-30T00:00:00" NOTES="MISC NOTES FIELD"> <PART NAME="Another Part.prt" QTY="10"></PART> </PART NAME="Another Part.prt" QTY="10"></PART> </PART>

Each XML file can contain one or more ORDER elements. Each ORDER element must contain a NUMBER attribute, but the other attributes (DUE, CUSTOMER, HOLD, and NOTES) are optional. If the DUE attribute is missing the current date is used as the due date. Each ORDER element contains one or more PART child elements. The NAME attribute is required and contains the part name. This name may or may not contain the ".prt" file extension, either will work. The QTY attribute is also required and must be greater than 0.

CSV Files

The following is an example CSV text file:

"ORDER"

"12345","2008-08-31T22:30:00","ABC","2008-08-30T00:00:00","MISC NOTES FIELD"

"18-08000-12","100","PART NOTES"

"18-08000-14.PRT ","300","PART NOTES"

"010906","3","" "ORDER"

"12346","2008-08-31T23:00:00","","2008-08-30T00:00:00","MISC NOTES FIELD"

"Another Part.prt","10",""

The quotation marks around each field are optional. The following is an equivalent file: ORDER

12345,2008-08-31T22:30:00,ABC,2008-08-30T00:00:00,MISC NOTES FIELD

18-08000-12,100,PART NOTES

18-08000-14.PRT,300,PART NOTES

010906,3,

ORDER

12346,2008-08-31T23:00:00,,2008-08-30T00:00:00,MISC NOTES FIELD

Another Part.prt,10,

The ORDER field must precede each Order. Multiple orders can be in one file as long as each is preceded by the ORDER field. The file layout is as follows:

ORDER

Comma separated order information Comma separated part information (multiple lines if needed) ORDER Comma separated order information Comma separated part information (multiple lines if needed)

The order information line must be in the following sequence: Order Number, Due Date, Customer, Hold Date, and Notes. The part information line(s) must be in the following sequence: Part Number, Quantity, Notes The part number may or may not contain the ".prt" extension, either will work.

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1.3 - Data Mapping

These steps illustrate how data is mapped between database tables / fields between Global Edge and the ERP system.

Workflow Steps

1. Launch *Global Edge Engineering Assistant* software to display the main system menu:



2. Select "Engineering > Engineering Set-Up / Utilities > ERP Interface" option to display the following menu:

	015				1	Connection
	CONNECTION	TYPE	DATABASE	ACTIVE	-	Maps
1	Global Edge Connection	Database	Informix	Yes		
2	Web Portal Connection	Database	SQL Server	Yes		Translation
3	Generic ERP Connection	XML	File	Yes		ОШТ
4	MES / Schedule Connection	XML	File	Yes		2011
5	External Quoting Database	Database	SQL Server	Yes		
				-		

Sample Data (ERP Connection Table – E-453 "erp_connect")

CONNECT #	DESCRIPTION	TYPE	DSN	DRIVER	SERVER	PORT #	IP ADDRESS
1	Global Edge Connection	D	globaledge			22	
2	Web Portal Connection	D		SQL Server	localhost		
3	Generic ERP Connection	х					
4	MES / Schedule Connection	х					
5	External Quoting Database	D	SQL DSN	{SQL Server Native Client 10.0}	customer server IP address		



1. Select "Maps > Update" option to display following screen form:

elect Trans	fer Map to Update, then Press [OK]:			ОК
MAP	DESCRIPTION	SOURCE CONNECTION	TRANSFERS	Cancel
1	Generic ERP Download	Generic ERP Connection	0	
2	Generic ERP Upload	Generic ERP Connection		
3	Generic Hot Order Download	Generic ERP Connection		
4	MES / Schedule Download	MES / Schedule Connection		
5	MES / Schedule Upload	MES / Schedule Connection		

Sample Data (Transfer Map Table – E-501 "transfer_map")

MAP #	DESCRIPTION	SRC CONN. #	FILE MASK	SOURCE QUERY	EVENT #
1	Generic ERP Download	3	.xml		2
2	Generic ERP Upload	3	.xml		2
3	Generic Hot Order Download	3		SELECT * FROM inventory WHERE rebuilt = 'Y' and transfer_status = 'R'	2
4	MES / Schedule Download	4	.xml		1
5	MES / Schedule Upload	4	.xml		1

2. Select "Source Tables" followed by "OK" option:





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3. Select "Update" option and select "WorkTasks" followed by "OK":



Sample Data (Source Schema Table – E-488 "src_schema")

MAP #	TRANS #	SRC TABLE	PARENT TABLE	TABLE QUERY	UPDATE COLUMN	UPDATE KEY
1	1	Customer		SELECT * FROM Customer WHERE transfer = 'Y'	transfer	
1	2	CustCnt		SELECT * FROM CustCnt WHERE transfer = 'Y'	transfer	
1	3	PartMaster		SELECT * FROM PartMaster WHERE transfer = 'Y'	transfer	
1	4	WorkTasks		SELECT * FROM WorkTasks WHERE transfer = 'Y'	transfer	
2	5	WorkTasks			task_status	task_num
3	6	HotJobs		SELECT * FROM HotJobs WHERE transfer = 'Y'	transfer	
4	7	WorkTasks		SELECT * FROM WorkTasks WHERE transfer = 'Y'	transfer	
4	8	Orders		SELECT * FROM Orders WHERE transfer = 'Y'	transfer	
4	9	Jobs		SELECT * FROM Jobs WHERE transfer = 'Y'	transfer	
5	10	job_trans		INSERT INTO JobTrans		

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4. This will display the following screen form and menu options:

#: SOURCE TABLE: Wor LINK COLUMN: COLUMN 2: COLUMN 2: COLUMN 3: COLUMN 4: COLUMN 3: URDATE KEY: JUPDATE KEY: JUPDATE KEY: JOIN TYPE: I assembly_rum 2 assm_rev 3 part_num 5 cfg_trans_num 5 cfg_trans_num 6 order_no 7 cad.jd_num 8 sheet_num 9 qty_formula 10 attrequired 10 attrequired	7_ kTasks ECT * FROM WorkTasks WH sfer	L PARENT_T PARENT_COL COLU COLU COLU ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	EVEL: 1 ABLE: UMN 2: MN 2: MN 3: UPDATE VALU UPDATE VALU UPDATE VALU	COLUMN COUNT: JE: <u>C</u> COLUMN #: RECISION	28	Quinns Quinns QUIT
#: Wor SOURCE TABLE: Wor LINK COLUMN: COLUMN 2: COLUMN 3: COLUMN 4: COLUMN 4: COLUMN 4: ORDER BY: TABLE QUERY: LIPDATE COLUMN: transum UPDATE COLUMN: transum QUPDATE COLUMN: transum 1 assembly_rum 2 assm_rev 3 part_rum trans_rum 5 cfg_trans_rum 5 cfg_trans_rum 6 order_no 7 cad.jd_rum 8 sheet_num 9 qty_formula 10 atv required transum	7_ kTasks ECT * FROM WorkTasks WH sfer	L PARENT_T PARENT_COL COLU COLU COLU COLU COLU COLU COLU C	EVEL: 1 ABLE: . .UMN 2: . 	COLUMN COUNT:	28	QUIT
SOURCE TABLE: Wor LINK COLUMN: COLUMN 2: COLUMN 3: COLUMN 4: COLUMN 4: COLUMN 4: COLUMN 4: COLUMN 4: UPDATE COLUMN: tran UPDATE COLUMN: tran UPDATE KEY: JOIN TYPE: 1 assembly_rum 2 assm_rev 3 part_num 5 cfg_trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 dty required	KTasks ECT * FROM WorkTasks WH sfer	PARENT_T PARENT COL COLU COLU ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	ABLE: UMN 2: MN 2: MN 3: UPDATE VALU	COLUMN COUNT:	28	QUIT
LINK COLUMN: COLUMN 2: COLUMN 3: COLUMN 4: ORDER BY: TABLE QUERY: SELI PDATE COLUMN: tran UPDATE KEY: JOIN TYPE: ROW # COLUMN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 5 cfg_trans_num 6 order_no 7 cad.jd_num 8 sheet_num 9 qty_formula 10 dty required	ECT * FROM WorkTasks WH sfer	PARENT COL COLU COLU ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	UMN :	COLUMN COUNT:	28	
COLUMN 2: COLUMN 3: COLUMN 4: ORDER BY: TABLE QUERY: SELI UPDATE KEY: JOIN TYPE: ROW # COLUMN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad.d_num 8 sheet_num 9 qty_formula 10 the required	ECT * FROM WorkTasks WH sfer	COLU COLU COLU COLU COLU COLU COLU COLU	MN 2: MN 3: MN 4: UPDATE VALU	COLUMN COUNT: JE: <u>C</u> COLUMN #: RECISION	28	
COLUMN 3: COLUMN 4: ORDER BY: TABLE QUERY: SELI IPDATE COLUMN: tran UPDATE KEY: JOIN TYPE: COLUMN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 thy required	ECT * FROM WorkTasks WH sfer	COLU COLU ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	MN 3: C UPDATE VALU V LENGTH PH 64 8 64 4		28	
COLUMN 4: ORDER BY: TABLE QUERY: SELI PDATE COLUMN: tran UPDATE KEY: JOIN TYPE: COLUMN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 dty required	ECT * FROM WorkTasks WH sfer	COLU ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	UPDATE VALU		28	
COLUMN 4: ORDER BY: TABLE QUERY: SELF PDATE COLUMN: tran UPDATE KEY: JOIN TYPE: 1 assembly_rum 2 assm_rev 3 part_num 4 trans_rum 5 cfg_trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 dty required	ECT * FROM WorkTasks WH sfer	ERE transfer = 'Y' ORDER: TYPE CHAR CHAR CHAR CHAR INTEGER SMALLINT	UPDATE VALU	UE: C	28	
ORDER BY: TABLE QUERY: SELI PPDATE COLUMN: tran UPDATE KEY: JOIN TYPE: COLUMN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 dty required	ECT * FROM WorkTasks WH sfer	ERE transfer = Y ORDER: TYPE CHAR CHAR CHAR CHAR INTEGER SMALLINT	UPDATE VALU	JE: C COLUMN #:		
TABLE QUERY: SELF PDATE COLUMN: tran UPDATE KEY: JOIN TYPE: L assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 thr required	ECT * FROM WorkTasks WH sfer	CHAR CHAR CHAR CHAR CHAR CHAR CHAR CHAR	UPDATE VALU	JE: C COLUMN #:		
PDATE COLUMN: tran UPDATE KEY: JOIN TYPE: 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 qty required	sfer	V ORDER: TYPE CHAR CHAR CHAR CHAR INTEGER SMALLINT	LENGTH PF 64 64 4	JE: C		
UPDATE KEY: JOIN TYPE: COLLMIN NAME 1 assembly_num 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 qty required		ORDER: TYPE CHAR CHAR CHAR CHAR CHAR INTEGER SMALLINT	LENGTH PF 64 8 64 4	COLUMN #:	A	
JOIN TYPE: assembly_rum 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cdd_d_num 8 sheet_num 9 qty_formula 10 dty required	:	ORDER: TYPE CHAR CHAR CHAR CHAR CHAR INTEGER SMALLINT	LENGTH PF 64 8 64 4	COLUMN #:	A	
COLLIMN NAME 1 assembly_rum 2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_d_num 8 sheet_num 9 qty_formula 10 dty required	:	TYPE CHAR CHAR CHAR CHAR INTEGER SMALLINT	LENGTH PF 64 8 64 4	RECISION	*	
1 assembly_num 2 assm_rev 3 part_num 4 trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 qtv required	-	CHAR CHAR CHAR CHAR INTEGER SMALLINT	64 8 64 4			
2 assm_rev 3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 qtv required		CHAR CHAR CHAR INTEGER SMALLINT	8 64 4			
3 part_num 4 trans_num 5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 otv reouired		CHAR CHAR INTEGER SMALLINT	64			
4 trans_num 5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 dtv required		CHAR INTEGER SMALLINT	4			
5 cfg_trans_num 6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 qtv required		INTEGER SMALLINT	4			
6 order_no 7 cad_id_num 8 sheet_num 9 qty_formula 10 qty required		SMALLINT				
7 cad_id_num 8 sheet_num 9 qty_formula 10 qty required			2			
8 sheet_num 9 qty_formula 10 atv required		SMALLINT	2			
9 qty_formula 10 gtv required		SMALLINT	2			
10 atv reauired		CHAR	1			
		DECIMAL	15	4		
11 qty_type		CHAR	1			
12 uom		CHAR	10			
15 part_rei 14 ref order		CHAR	24			
15 std ont		CHAR	1			
16 alt ok		CHAR	1			
17 bill_type		CHAR	2			
18 desc_lines		SMALLINT	2			
19 blank_count		SMALLINT	2			
20 explode_comp		CHAR	1			
21 list_price		MONEY	12	2		
22 std_cost		MONEY	14	4		
23 ship_wt		FLOAT	8			
24 ship_wt_uom		CHAR	10			
25 mtri_yield 26 dim param		CHAR	4			
27 cad ground		CHAR	1			
28 cfg_model_cop	у	CHAR	1			
(# of 3)						

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5. Select "QUIT > QUIT" option, then select "Destination Maps" option to display the following screen form and menu options:

									<u> </u>	<u>\</u> dd
MAP #	4	SOURCE CONN	ECT #:	4	MES / Sched	ule Cor	nnection		Up	date
DESCRIPTION	I: MES / Schedu	le Download							De	elete
SOURCE PATH	l:									
FILE MASK	: .xml								2	UII
READY FILE	8									
OURCE QUERY										
DELIMITER	: DE	LETE COMPLETE:	~	TOTAL	TRANSFERS:					
RST TRANSFER	: 2023-09-01	12:00:00		LAS	TRANSFER:	20	23-09-01 12:00	0:00		
EVENT #		1 Real-Time Tr	ransfers							
PROGRAM	: GlobalEdgeER	.P						\sim		
OW # DESTIN	IATION		CON	# CONN	ECTION		TRANSFERS			
1 To Wor	k Queue		1	Global	Edge Connect	tion				
2 Insert	Sales Orders into Job Orders into Cl	Global Edge	1	Global	Edge Connect	tion				
4 Transfe	er to MES	obai Euge	4	MES /	Schedule Conriect	nect				
5 Transfe	er from MES		4	MES /	Schedule Conr	nect				

3. Select "Update" option, then select "Transfer to Generic MES" option followed by "OK" option:

Press [OK] When [one Viewing:					OK
MAP #:	4 SOURCE CON	IECT #:	4 MES / Schedu	le Connection		Cancel
DESCRIPTION:	MES / Schedule Download				_	
SOURCE PATH:					_	
ETLE MACK						
PILE MASK.	.xmi				_	
READY FILE:					_	
SOURCE QUERY:						
DELIMITER:	DELETE COMPLETE:	\sim	TOTAL TRANSFERS:			
IRST TRANSFER:	2023-09-01 12:00:00		LAST TRANSFER:	2023-09-01 12:0	0:00	
EVENT #:	1 Real-Time T	ransfers				
PROGRAM:	GlobalEdgeERP				\sim	
OW # DESTINAT	TON	CON #	CONNECTION	TRANSFERS		
1 To Work 0)ueue	1	Global Edge Connection	on		
2 Insert Sal	es Orders into Global Edge	1	Global Edge Connection	on		
3 Insert Job	Orders into Global Edge	1	Global Edge Connection	on		
4 Transfer i	o MES	4	MES / Schedule Conne	ect		
5 Transfer f	rom MES	4	MES / Schedule Conne	ect		
					-	



4. This will display the following screen form and menu options:



Sample Data (Map Destination Table – E-462 "map_dest")

TRANS #	MAP #	ROW #	DESCRIPTION	DEST. CONNECT #	PATH	EXT.	READY EXT.	UPDATE COL.
1	1	1	Insert Customers into Global Edge	1				customer_num
2	1	2	Insert Customers into Web Portal Database	2				customer_num
3	1	3	Insert Customer Contacts into Global Edge	1				
4	1	4	Insert Work Queue Entries into Global Edge	1				
5	1	5	Insert Inventory Parts into Global Edge	1				
6	1	6	Insert Work Queue Entries into Global Edge	1				
7	4	1	To Work Queue	1				
8	4	2	Insert Sales Orders into Global Edge	1				
9	4	3	Insert Job Orders into Global Edge	1				
10	4	4	Transfer to MES	4		.XML	.RDY	
11	4	5	Transfer from MES	4		.XML	.RDY	
12	5	1	Upload Daily Production to ERP	1				



Demo Section 2: SolidWorks CAD Interface / Manufacturability Testing

Global Edge[®] **Integrated Manufacturing** provides a direct two-way interface with SolidWorks 3D CAD software. This includes the capability to automatically produce single or large batches of SolidWorks DXF Flat Files with a few mouse clicks. This also includes the ability to perform a "**Manufacturability Test**" on each part. The following are the steps to perform these capabilities on a single sheet metal part, or a batch of sheet metal parts:

- 2.1 Single Sheet Metal Part Processing
- 2.2 Assembly Model Processing
- 2.3 Sheet Metal Part Batch Processing

Demo Section 2: SolidWorks CAD Interface Overview
The following is an overview of Section 2 and what is illustrated within each of the steps.
 <u>2.1 – Single Sheet Metal Part Processing</u>: The steps within this section illustrate how the <i>Global Edge</i> software provides which includes:
○ Xxxx
○ Xxxx
○ XXXX
 <u>2.2 – Assembly Model Processing</u>: The steps within this section illustrate how the <i>Global Edge</i> software provides which includes:
• Xxxx
• Xxxx
○ Xxxx
 <u>2.3 – Sheet Metal Part Batch Processing</u>: The steps within this section illustrate how the <i>Global Edge</i> software provides which includes:
• Xxxx
• Xxxx
○ Xxxx



2.1 – Single Sheet Metal Part Processing

These steps illustrate the single part processing of a SolidWorks sheet metal part.

Workflow Steps

1. The first step is to launch SolidWorks:



2. Select "File > Open" and select "BP-00-TEST-PART-A.sldprt" SolidWorks part file:







3. Select "Tools > Global Edge > Export Files" option:





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 Select the "Select All" option including checking "Data Import", "Silent Mode", "Save Model Changes", and "Manufacturability Test" check boxes so the software will analyze and test the above selected sheet metal part ("BP-00-TEST-PART-A"):

Global Edge - File	e Export:							– 🗆 X
Batch #::	Type:	~			Date/Time:			Open File Filter
Processing Part #:						Status:	~	 All CAD Files
Part Type:	~ Ma	terial:		Pr	rocessing Task:	Of:	2	Assembly
Bend Process:					- Thickness:			Sheet Metal
File Path:						L		Filter
Operation: 2	Open/Pending Files Selected					Total Task	s:	
Task# Doc #	File		Material	Thickness	Bend Radius	Mfr Test Results	Status	Batch File Select
<u> </u>	C: \GlobalEdge \data \CAD-Files \;	Solid Works \BP-UU-TEST-PART-A.sidpit	-	-	-	Pending	Pending	Work Dueue
								SelectAll
								Uncheck
								Export
								Test-Results
								Clear
								Liose
EXPORT OPTIONS								
🔽 DXF Files - Vers	ion: R12 V Rewrite	STEP File - Version: AP203 V	Default Sh	eet Metal Categ	gory: SHT 🗸	SHEET METAL		
DWG Files - Vers	ion: R2013 V Rewrite	STL Files	Defau	It Sheet Metal S	ityle: V			
ACIS(SAT) Files		Additive Manufacturing	Ben	Resize: None	~	🔽 Save Moo	lel Changes	
IGES Files		3D Manufacturing	Document Link	🔽 🔽 Data	a Import	🔽 Manufacti	urability Test	
2D PDFs	3D PDFs	JPEG File	Extended Data DXF	🛃 Siler	nt Mode	🗌 Debug Ma	ode	1 Total Files
Output Directory	Save Location	DXF In	port Rules: SolidWorks (CAD Interface			~	1 Open Files
C:\GlobalEdge\data\(Dutput							Output Location
								%
						Database: olob	aledoe Use	ername: Idc .:
						Guine and glob	030	

- 5. Select the "*Export*" option to start the export process. As the software executes the following actions will take place:
 - A. Flat Pattern DXF File Generated for Each Sheet Metal Part
 - B. DXF Analysis Performed
 - i. Material / Thickness / Bend Radius
 - ii. Blank / Flat (Length & Width)
 - iii. Minimum / Maximum Bend Length
 - iv. Minimum / Maximum Bend Angle
 - v. Minimum / Maximum Flange Width
 - vi. Minimum Pem Hole to Bend Line Gap
 - vii. Minimum Embossment to Bend Line Gap
 - viii. Minimum Louver to Bend Line Gap
 - ix. Maximum Up / Maximum Down Bend
 - x. Fold / Hem / Extrude Counts
 - xi. Minimum Taper / Die Cut to Bend Line Gap
 - C. Software Saves DXF Flat File to Output Location
- 6. When the file conversion process is complete, the following message is displayed:



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ina & Ma

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		BP Minimum	BP Maximum	Minimum	Maximum
	Flat Length	Flat Length	Flat Length	Mfg. Test	Mfg. Test
Total Part Flat Size:	96.337	6.000000	96.000000	Pass	Fail
	Flat Width	Flat Width	Flat Width	Minimum	Maximum
Total Part Flat Size:	56.000	4.000000	84.000000	Pass	Pass



	Feature Name	Flange Width
A-Base-Flange:	D1@Sketch1	57.375
		Flange Length
	D2@Sketch1	56.000

			Bend Process	Bend Process		
	Feature Name	Flange Width	Width Minimum	Width Maximum	Mfg. Test	Flange Length
B-Edge-Flange1:	D7@B-Edge-Flange1	2.000	1.500000	24.000000	Pass	56.000
C-Edge-Flange2:	D7@C-Edge-Flange2	2.000	1.500000	24.000000	Pass	56.000
D-Pem-Flange-Right:	D7@D-Pem-Flange-Right	6.000	1.500000	24.000000	Pass	56.000
E-Pem-Flange-Left:	D7@E-Pem-Flange-Left	6.000	1.500000	24.000000	Pass	56.000
F-Edge-Flange3:	D7@F-Edge-Flange3	2.000	1.500000	24.000000	Pass	56.000
G-Edge-Flange4:	D7@G-Edge-Flange4	2.000	1.500000	24.000000	Pass	56.000
H-Edge-Flange5:	D7@H-Edge-Flange5	2.500	1.500000	24.000000	Pass	56.000

				Bend Process	Bend Process	
	Flange Width	Flange Length	Degrees	Minimum Angle	Maximum Angle	Mfg. Test
T-Down-Bend-Flange:	3.500	23.500	140.000	39.000000	135.000000	Fail
V-Bottom-Cutout-Flange:	3.500	23.500	90.000	39.000000	135.000000	Pass



	Feature Name	Width	Feature Name	Length
I-Hem1:	D8@I-Hem1	1.000		56.000
R-Rect-Cutout-Top:	D2@Sketch41	6.000	D1@Sketch41	24.000
S-Rect-Cutout-Bottom:	D2@Sketch53	6.000	D1@Sketch53	24.000
U-Middle-Cutout:	D1@Sketch61	20.000	D2@Sketch61	24.000

		Y/X-Axis	Hole Diameter	Bend Line	Bend Process	
	Feature Name	From Edge	From BL	From Tang.	Minimum	Mfg. Test
W-Pem-Hole-Low-RT-01:	D1@Sketch49	2.000	0.375	2.288	2.000000	Pass
	D2@Sketch49	2.500	2.475			
W-Pem-Hole-Low-RT-02:	D2@Sketch50	5.000	0.375	2.288	2.000000	Pass
	D1@Sketch50	2.500	2.475			
W-Pem-Hole-Low-RT-03:	D2@Sketch54	8.000	0.375	2.288	2.000000	Pass
	D1@Sketch54	2.500	2.475			
X-Pem-Hole-Low-LT-01:	D1@Sketch51	2.000	0.375	2.288	2.000000	Pass
	D2@Sketch51	2.500	2.475			
X-Pem-Hole-Low-LT-02:	D2@Sketch70	5.000	0.375	2.288	2.000000	Pass
	D1@Sketch70	2.500	2.475			
X-Pem-Hole-Low-LT-03:	D2@Sketch73	8.000	0.375	2.288	2.000000	Pass
	D1@Sketch73	2.500	2.475			
Y-Pem-Hole-Up-RT-01:	D2@Sketch55	2.000	0.375	1.988	2.000000	Fail
	D1@Sketch55	2.200	2.175			
Y-Pem-Hole-Up-RT-02:	D2@Sketch56	5.000	0.375	1.988	2.000000	Fail
	D1@Sketch56	2.200	2.175			
Y-Pem-Hole-Up-RT-03:	D2@Sketch57	8.000	0.375	1.988	2.000000	Fail
	D1@Sketch57	2.200	2.175			
Z-Pem-Hole-Up-LT-01:	D2@Sketch58	2.000	0.375	2.288	2.000000	Pass
	D1@Sketch58	2.500	2.475			
Z-Pem-Hole-Up-LT-02:	D2@Sketch59	5.000	0.375	2.288	2.000000	Pass
	D1@Sketch59	2.500	2.475			
Z-Pem-Hole-Up-LT-03:	D2@Sketch60	8.000	0.375	2.288	2.000000	Pass
	D1@Sketch60	2.500	2.475			

		Y-Axis		X-Axis		X-Axis	Bend Line
	Feature Name	From Edge	Feature Name	From Edge	Hole Dia.	From BL	From Tang.
J-Upper-Left-Hole:	D1@Sketch33	2.000	D2@Sketch33	2.000	1.000	1.975	1.475
K-Lower-Left-Hole:	D1@Sketch34	2.000	D2@Sketch34	2.000	1.000	1.975	1.475
L-Upper-Right-Hole:	D2@Sketch35	2.000	D1@Sketch35	2.000	1.000	1.975	1.475
M-Lower-Right-Hole:	D2@Sketch36	2.000	D1@Sketch36	2.000	1.000	1.975	1.475
N-Low-Mid-Left-Hole:	D2@Sketch37	12.000	D1@Sketch37	2.000	1.000	1.975	1.475
O-Low-Mid-Right-Hole:	D2@Sketch38	12.000	D1@Sketch38	2.000	1.000	1.975	1.475
P-Upper-Mid-Left-Hole:	D2@Sketch39	12.000	D1@Sketch39	2.000	1.000	1.975	1.475
Q-Upper-Mid-Right-Hole:	D2@Sketch40	12.000	D1@Sketch40	2.000	1.000	1.975	1.475



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6. Select "Test Results" option to display following screen form:

Ba	atch #::	Ту	vpe:	~							Date/Time:			Open File	e Filter
rocessing l	Part #: BF	-00-TEST-PAP	RT-A		BEND PROC	ESS TES	T PART A					Status:	~		vD Files
Part	t Type: Sh	eet Metal	\sim	Material:	304-4	~	304-4 STAIN	LESS STEEL		Pr	ocessing Task:	1 Of	2	O Sheel	t Metal
Bend Pr	rocess:	4 Air	r Bend, SS, 304	1-4, 0.0500	0, Radius - 0.	025					Thickness:	0.0)5 in	O Part	
File	e Path: 🖸	\GlobalEdge\d	data\CAD-Files\	SolidWork	s\BP-00-TES	T-PART-A	sldprt							F	ilter
Оре	eration: Re	ady										Total Tasl	<s:< td=""><td>P</td><td>atak</td></s:<>	P	atak
ask# [Doc #	File							Material	Thickness	Bend Radius	Mfr Test Results	Status	В	atcn
1201 -	-	C:\GlobalEdg	je∖data∖CAD-Fil	les\SolidW	/orks\BP-00-1	EST-PAR	T-A.sldprt		304-4	-	-	Fail	Fail	File	Select
														Work	k Queu
														Sel	ectAll
														Un	check
														E	xport
														Teet	Poor
														- Test	-nesu
														C	lear
														CI	lose
_															
XPORT O	PTIONS														
DXF File	es ·Versio	on: R12 🕓	Rewrite		STEP File 🔸	Version:	AP203 🗸		Default Sh	eet Metal Categ	pory: SHT 🗸 🗸	SHEET METAL			
DWG Fi	iles - Versic	on: R2013 🔨	- Rewrite		STL Files				Defaul	t Sheet Metal S	tyle: 🔍 🗸				
ACIS(SA	AT) Files				Additive Mar	nufacturing			Bend F	Resize: None	~	🛃 Save Mo	del Changes		
] IGES Fi	les				3D Manufac	turing		Docume	ent Link	🔽 Data	Import	🖂 Manufact	urability Test		
2D PDF	s	🗌 3D PDI	Fs		JPEG File			Extende	d Data DXF	🔽 Siler	t Mode	🗌 Debug M	ode	1	Total
Output Di	irectory] Save Locati	ion				DXF Im	port Rules:	SolidWorks C	AD Interface			~	1	Oper
GlobalEd	ae\data\0	utput												Outpu	t Loca
														100	%



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- 🖳 Global Edge Manufacturability Test: Global Edge Windows Demo Server Test Part DXF Image Dimensions/Parameters Test Part Test Item Part #: BP-00-TEST-PART-A Part Type: Component Type: Dimension Status: Row #: 4 BEND PROCESS TEST PART A Parameter: Maximum Flat Length: 4 Test Description: Bend Process Test (BP #: 4) Dim Name: Flat_Leng Test # Run: Date/Time: 01/31/2025 02:26:35 🔲 🔻 Run By: Idc Larry D. Colbourn Test Value Part Value Logic UOM WQ Task #: 1201 Export Model: DXF File - Manufacturability Test 96 336549 96 000000 <= alue: 0.000000 Warning Boute # Parame Status: Seq #: Process Results: FAILED Std Proc #: 4 Proc Type: Bending Air Bend, SS, 304-4, 0.05000, Radius - 0.025 Asset # Results Part Exceeds Maximum Flat Length Erro 302 Test Status: Pass Task Status: Closed Test Trans #: 179 Test Limit Status Row # Туре Parameter CAD Value Logic Min. Material Thickn... 0.050000 >= 0.048000 Pass Decimal Max. Material Thickn... 0.052000 Warning Decimal 0.050000 <= Decimal Minimum Flat Length: 96.336549 >= 6.000000 Pass Warn # Decimal Minimum Flat Width: 56 000000 >= 4 000000 Pass Maximum Flat Width: 56.000000 <= 84.000000 Warning Decimal 96.000000 Warning Decimal Maximum Bend Leng. 56 000000 <= 23.500000 >= 0.750000 Pass 8 Decimal Minimum Bend Length: Minimum Flange Wid... 4 000000 >= 1.500000 Pass Decimal 12.000000 <= 24.000000 Warning 10 Decimal Maximum Flange Wi... Trans #: 11 0.000000 <= 24.000000 Pass 2424 Decimal Maximum Up Bend: 12 Decimal Maximum Down Bend: 0.000000 <= 6.000000 Pass 13 Minimum Bend Angle: Decimal 45.000000 39.000000 Pass Generate Report Close 14 Decimal Maximum Bend Angle 90 000000 <= 135.000000 Warning
- 7. Select "Row 4" for results of failed Parameter (Maximum Flat Length):

Global Edge Integrated Manufacturing as part of the "**Manufacturability Test**" process, the software will automatically match each sheet metal part being processed with the appropriate Bend Process. This is accomplished by comparing Material, Thickness, and Bend Radius with the matching user defined Bend Process. Within each Bend Process, the user can define the appropriate Design Parameter Rules to match the machine tool tooling capabilities.

On the above screen form, the results of the "*Manufacturability Test*" lists a failed parameter with the result "*Part Down Pem Too Close to Bend Line*" where a Pem Hole is 1.800 inches from a bend line, when the minimum is 2.000 inches. This is one of 22 tests that are performed on each sheet metal part. To correct this error, the Design Engineer can then make the appropriate change to the SolidWorks Sheet Metal Part, then repeat the above steps and retest the part.

The software also records a test history of each test and subsequent test that is performed on the sheet metal part.

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 \times

8. Select "*Report*" option to display the following screen:

	* > D	
Printer		
Microsoft Print to PDF ~		
+ Add a printer		
Orientation		
🗅 Portrait 🗸		
Print to file		
On On		
Stores printing output to a file	No preview available	
More settings		

9. Select "*Report*" option to display the following screen:

Save Print Output As				×
\leftarrow \rightarrow \checkmark \uparrow \blacksquare > This PC > OS (C:) >	GlobalEdge > data > Output > PDF	~ C	Search PDF	م
Organize 🔻 New folder			Ξ	≣ ▼ 🔞
> 💼 ERP-Transfer	Name	Date modified	Туре	Size
🗸 늘 Output		No items match your search.		
🚞 DXF				
🚞 IGES	1			
늘 JPG				
DF				
tep Step				
PART-Files				
File name: BP-00-TEST-PART-A.pdf				~
Save as type: PDF Document (*.pdf)				~
∧ Hide Folders			Save	Cancel



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10. Select "*Report*" option to display the following screen:



Global Edge CAD Part Parameter Report

∃ Menu	ଜ	☆ BP-	00-TEST-PART-A.pdf ×	+ Create			0 4	000 000	Sign in	_		×
All tools	Edit	Convert	E-Sign		Find tex	t or tools C	. Β <i>Φ</i> 6	Ø) <i>o</i> e	a 📑	Al Assist	ant
k		DateTim	e: 01-31-2025 14:34:4	。 dae CA	ם ח	ort D	aramotor		oport	Page:	1	e
e,			Giubai E	uge CA	DFe		arameter		eport			
L,		BP-00-T BEND P	PART # / DESCR EST-PART-A ROCESS TEST PART		Categ Mate	ory: SHE erial: 304- Ship Weig	ET METAL 4 STAINLESS STEEI ht: 62 7778 lbs	-				∏ ©
- <u>-</u>		MTL. TY	PE: SS - AISI 304			Setup Co	st: 0.00					
iAi,		18 GA -	Thick: 0.05000 - Bend	Rad: 0.025	Pr	rocess Co	st: 0.00					
					Comp	Bollup Co	st: 0.00 st: 0.00					
6h					Sta	andard Co	st: 0.00					
				C/	AD Part	Param	eters					
		Par #	Parameter Name	Value	UOM	Par#	Parameter Name		Value	UOM		
		1	Sheet_Length	n: 0.000000	inches	32	Min_Die_Cuto	ut:		inches	-	
		2	Sheet_Width	n: 0.000000	inches	33	Up_Ben	ls:	5	-	-	
		3	Blank_Lengti	n: 0.000000	inches	34	Int_Up_Ben	IS:	0	-	-	
		4	Blank_Widt	1: 0.000000	inches	35	Max_Up_Ber		0.000000	-	-	
		5	Material_Inickness	0.050000	inches	36	Down_Bend	IS:	6	-	-	
		6	Perimete	r: 299.885590	inches	37	Int_Down_Bend	IS:	0	-	-	
		/	Flat_Lengti	1: 96.336549	inches	38	Max_Down_Ber	a:	0.000000	-	-	
		8	Flat_Widt	1: 56.000000	inches	39	Fold_Cou	nt:	11	-	-	
		9	Round_Holes	3: 20	-	40	Hem_Cou	nt:	1	-	-	
		10	Round_Sizes	5: 2	-	41	Extrude_Cou	nt:	0	-	-	
		11	Obround_Holes	8 1	-	42	Bend_Radi	IS:	0.025000	Inches	-	
		12	Obround_Sizes	5 1	-	43	Cutting_Metho				-	
		13	Rectang_Holes	3: 1	-	44	Cutter_Ref_Nu	m:			-	
		14	Rectang_Sizes	i. I	-	45	Certilled_M	uri.			-	2
		10	Other_Files	2	-	40	Cutout Distor		1-4	lineboo	-	
		10	Num Cutout	24	-	47	Part Distant	.e	69 507710	inches	-	
		10	Cutout Perimeter	200 000005	- inches	40	l art_Distan	ok:	00.337713	Inches	-	
		19	Min Bend Length	23 500000	inches	50	Embo				-	
		20	Max Bend Length	56 000000	inches	51	Tur	et:			-	
		21	Min Bend Angle	45 000000	inches	52	las	er:				
		22	Max Bend Angle	90,000000	inches	53	Plasn	na:				1
		23	Min Flange Width	4.000000	inches	54	Water J	et:				2
		24	Max Flange Width	12.000000	inches	55	Press Bra	ke:				
		25	Min Pem Gar	0.346674	inches	56	Panel Bend	er:				^
		26	Min Dn Pem Gar	1.800000	inches	57	Pem Nu	ts:				
		27	Min_Emboss Gap	3.000000	inches	58	Pem Stu	ls:				
		28	Min_Dn_Emboss Gap	c.	inches	59	Gra	in:				C
		29	Min_Louver Gap	01	inches	60	We	eld:				
		30	Min_Dn_Louver_Gap	c .	inches	61	Debu	irr:				Ľ,
		31	Min_Taper_Bl_Gap	0.000000	inches	62	Pa	int:				Ð
											_	
	8.50 x	11.00 in										Q



11. Select "DXF Image" tab to display DXF Image:



12. Select "Dimension/Parameters" tab to display the dimension part parameters for the current part:

Part DXF	Image Dimensions/	Parameter	rs						
art Informat	ion								
Part #:	BP-00-TEST-PART-	A			BEND PROCESS TEST PART A	Origin:	Manufactured	LDC Manufacturing	
Revision:		Active		~	MTL. TYPE: SS - AISI 304	Mfr Part #:			
Part Type:	Component ~	Master:	No	~	18 GA - Thick: 0.05000 - Bend Rad: 0.025	Category:	SHT V SHEET METAL		Serial: None
Part LIOM:	FA V	Bebuilt	No	_		Stule		Ship W/r 6	777787 lbs
List Prince	e0.00	Tropane				CAD Materials	AISI 204	Jinked Te	
List Fride.	30.00					CAD Material	204.4	Linked To.	
Alias UI:				_		Material	304-4 ~		
im # DI Sh Sh Sh Bla Bla Bla Ma Pe Fla Fla R Bla DI DD R Fla Fla Fla R DD Sh DD Sh	MENSION / PARAME weet_uchth ank_Length ank_Width atkala_Thickness atmeter t_Uchth t_Width t_Width t_Width t_Width t_Width t_Uchthth t_Uchth t_Uchth t_Uchthth t_Uchth	TER			VALUE 0.00000 nches 0.00000 nches 0.00000 nches 0.05000 nches 299.885500 nches 96.35549 inches 56.00000 inches 20.00000 1.00000000 1.00000 1.0000000 1.000000 1.000000 1.000000 1.000	Dimension / Pa Dim 1; Dim Type: UDM: Constraint: Quote Display: Dimensi Config Pai CAD Atrib CAD Pai	ion Description:	Display Width: Display Precision: Unit String: Config Description: UDM Relationship: Factor:	
1 Mi 2 Ma	n_Bend_Angle ax_Bend_Angle				45.000000 inches 90.000000 inches				
B Mi	n_Flange_Width				4.000000 inches				
∔ Ma 5 Ma	ax_Flange_Width in Pem Gan				12.000000 inches 0.346674 inches				
- 198 - 198	n_non_odp				1.000000 := -h				Close



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2.2 – Assembly Model Processing

These steps illustrate the processing of a SolidWorks assembly.

Workflow Steps

1. Select "File > Open" and select "SLD-000-CAB-CRS-325616-0001.sldasm" SolidWorks assembly file:



2. Select "Tools > Global Edge > Export Files" option to display the following screen form:

Batch #::	Type:	×			Date/Time:			Open File File	er
rocessing Part #:				l .		Status:	~	All CAD Fi	les
Part Type:	~	Material:		P	rocessing Task:	Of:		O Sheet Me	tal
Bend Process:					Thickness:			O Part	
File Path:								Filter	
Operation: C	an only Export with One O	pen Part				Total Task	.8:	D-1-1	
ask# Doc #	File		Material	Thickness	Bend Radius	Mfr Test Results	Status	Batcr	•
								File Sele	ect
								Work Qu	ieue
								Select	All
								Unche	ck
								Espor	rt.
								Test-Re:	sults
								Clear	
								Close	
XPORT OPTIONS									
DXF Files • Versi	on: none 🗸	STEP File · Version: AP203	Default Sheet Metal Ca	tegory: SHT 🔍	SHEET MET	ral.			
DWG Files - Versi	on: R2013 ~	STL Files	Default Sheet Meta	al Style: 📃 🗸	1				
ACIS(SAT) Files		Additive Manufacturing	Bend	Resize: None	~	🛃 Save Moo	iel Changes		
] IGES Files		3D Manufacturing	Document Link	🔽 Data	Import	🛃 Manufacti	urability Test		
2D PDFs	3D PDFs	JPEG File	Extended Data DXF	🖂 Silent	Mode	🗌 Debug Mo	ode	0 T.	
Output Directory	Save Location		DXE Import Rules: SoldWorks	CAD Interface			~	12 0	nen Fil
\GlobalEdge\data\[IXE-Output							Output Lo	cation
								%	

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3. Check "Sheet Metal" option followed by "Filter" option to filter out sheet metal parts contained in the assembly:

🖥 Global Edge - Fi	ile Export: Global Edge	Windows Demo Server							– 🗆 X
Batch #::	Type:	~				Date/Time:			Open File Filter
Processing Part #							Status:		All CAD Files
Part Tune		Material V			P	rocessing Task:	06	0	
Band Process:						Thickness			 Sheet Metal
File Path:						Therefore as			O Part
Operation:	Ready to Export			1			Total Task		Filter
operators							TURALITASE		Batch
Task# Doc #	File			Material	Thickness	Bend Radius	Mfr Test Results	Status	FileSelect
U	C:\GlobalEdge\data\ C:\GlobalEdge\data\	CAD-Files\SolidWorks\SLD-002-WRAP-33 CAD-Files\SolidWorks\SLD-004-CAB-TOP	25616-0001.sldprt	Pending	Pending				
0-	C:\GlobalEdge\data\	CAD-Files\SolidWorks\SLD-003-CAB-BOT	-5616-0001.sldprt	Pending	Pending				Work Queue
ō-	C:\GlobalEdge\data\	CAD-Files\SolidWorks\SLD-018-SPINE-L1	-32-0001.sldprt	Pending	Pending				Select All
<u> </u>	C:\GlobalEdge\data\	CAD-Files\SolidWorks\SLD-019-SPINE-R	F-32-0001.sldprt	Pending	Pending				Heatheath
U	C:\GlobalEdge\data\	CAD-Files\SolidWorks\SLD-017-SPINE-C	1027.0001.sldprt	Pending	Pending				Uncheck
0-	C: (Global Edge (data v	CAD-Files (Solid Works (SED-013-FILE-FIVE	-1627-0001.sidprt	rending	rending				Export
									Test-Besults
									Clear
									Close
EXPORT OPTIONS	sion: none	✓	∽ Del	fault Sheet Metal Cate	egory: SHT 🕔	SHEET ME	TAL		
DWG Files - Ver	sion: R2013	 STL Files 		Default Sheet Metal	Style:	/			
ACIS(SAT) Files		Additive Manufacturing		Bend Re	esize: None	~	🛃 Save Mo	iel Changes	
IGES Files		3D Manufacturing) ocument Link	🔽 Data	Import	🕑 Manufact	urability Test	
2D PDFs	3D PDFs	JPEG File	_ E	xtended Data DXF	🛃 Silen	t Mode	🗌 Debug Me	ode	7 Total Files
Output Directory	Save Location		DXF Import R	ules: SolidWorks C	AD Interface			~	12 Open Files
C:\GlobalEdge\data	DXF-Output								Output Location
									~ ~
									~ ~
							Database: glob	aledge Us	ername: ldc

4. Select "*Batch*" option to create a "*Batch* #" including a Batch Description for the sheet metal part selected on the previous screen:

👷 Global Edge - Work Queue Batch: Global Edge Windows Demo Server 🦳 —									
Selected Assi	Batch #::						~	Add Ok	
	Dratt Pending; On Hold: Failed; Date: Finday , November 8, 2024;	Open:	Ca	WIP:		Total:		Find Clear Cancel	
Batch #	Batch Description	Assigned To	Туре	Date/Time	Priority	Closed	Total	Status	
5	Batch to Process Bend Process Test Parts	ldc	Configur	11/8/2024	0	0	0	Pending	
3	Batch to Process Demo Parts	ldc	Configur	11/8/2024	0	0	0	Pending	
2	Batch to Process Light Fixture Assembly	ldc	Configur	11/8/2024	0	0	0	Pending	
1	Batch to Process Utility Cabinet Order	ldc	Configur	11/8/2024	0	0	0	Pending	


5. Select "OK" option to return to the previous screen:

Global B	Edge - File	e Export: Global Edge Wi	indows Demo Server							- 0	>
B	atch #::	Type:	~				Date/Time:			Open File Fi	ilter
Processing	Part #:							Status:	~	() AII CAD	Files
Pa	art Type:	~	Materiat V			Pi	ocessing Task:	Of	8	() Assemble	9
Bend F	Process:						- Thickness			Sheet M	letal
E	ile Path						Therefore as			O Part	
Op	peration: R	eady to Export						Total Task	5	Filt	er
	_									Bato	ch
Task#	Doc #	File			Material	Thickness	Bend Radius	Mfr Test Results	Status	File Se	elect
		C:\GlobalEdge\data\CA	D-Files\SolidWorks\SLD-002-WRAP-32	25616-0001.sldprt	Pending	Pending					
-		C:\GlobalEdge\data\CAl	D-Files \Solid Works \SLD-004-CAB-TOP D-Files \Solid Works \SLD-002-CAB-POT	-36 16-000 Lsidprt	Pending	Pending				Work Q	lueu
		C:\GlobalEdge\data\CA	D-Files\SolidWorks\SLD-003-CAD-BOT	-32-0001 sident	Pending	Pending				Selec	t All
-		C:\GlobalEdge\data\CAl	D-Files\SolidWorks\SLD-019-SPINE-R1	F-32-0001.sldprt	Pending	Pendina				Jelec	AT ALL
~)		C:\GlobalEdge\data\CAl	D-Files\SolidWorks\SLD-017-SPINE-CT	-32-0001.sldprt	Pending	Pending				Unch	ieck
		C:\GlobalEdge\data\CAI	D-Files\SolidWorks\SLD-015-FILL-PNL-	-1627-0001.sldprt	Pending	Pending				Exp	ort
										Test-R	aenl
										Test	Grater.
										Liea	ar
										Clos	se
									_		
EXPORT	OPTIONS										
🕗 DXF Fil	iles ·Versi	ion: none \sim	STEP File · Version: AP203	✓ Defau	it Sheet Metal Cat	egory: SHT 🗠	SHEET ME	TAL			
DWG F	Files - Versi	ion: R2013 ~	STL Files	D	efault Sheet Metal	Style:	/				
ACIS(S	SAT) Files		Additive Manufacturing		Bend R	esize: None	~	🛃 Save Moo	del Changes		
🗌 IGES F	iles		3D Manufacturing	🗌 Doc	cument Link	🔽 Data	Import	🛃 Manufact	urability Test		
2D PDI	Fs	3D PDFs	JPEG File	🗌 Exte	ended Data DXF	🛃 Silent	Mode	🗌 Debug M	ode	7 .	Total
Output D	Directory (Save Location		DXF Import Rule	es: SolidWorks (CAD Interface			~	12 (Open
:\GlobalEd	dge\data\D	XF-Output								Output L	ocati
											%
								Detabases alab		oroomo: Mo	

6. When the conversion process is completed, select "OK" and Export Screen will be updated:

🛯 Global Edge - Fil	e Export: Global Edge Wi	ndows Demo	Server								- 0	x I
Batch #::	Type:	~						Date/Time:			Open File	Filter
Processing Part #: 3	LD-015-FILL-PNL-1627-000	1	CABINET FILL PANEL						Status:	~) Files
Part Tupe: S	beet Metal	Material	CRS V	COLD BOLLED	STEEL		P	ocessing Task:	7 06	8	 Assem 	bly
Pond Process		matonat						Thickness	0.04		 Sheet 	Metal
Ele Deniu Process.			ACLD OIE FUL PAUL 103	7 0001 -14				T NICKNESS.	0.04	0 1	O Part	
Operation: F	eady	es coolid work.	ASEB-01341624 NE-102	ar-ooon.stupre		1			Total Task		Fi	llter
											Ba	itch
Task# Doc #	rie					Matenal	Inickness	Bend Radius	Mfr Test Hesuits	Status	File	Select
1092	C:\GlobalEdge\data\CAL)-Files\SolidW	orks\SLD-002-WRAP-32	5616-0001.sldprt		Pending	Pending					
1093	C:\GlobalEdge\data\CAL	Files Solid W	orks\SLD-004-CAB-TOP-	5616-0001.sidpit		Pending	Pending				₩ork	Queue
1095	C:\GlobalEdge\data\CAL)-Files\SolidW	nks\SLD-003-CAD-DOT-	-32-0001 sident		Pending	Pending				Sald	act All
1096	C:\GlobalEdge\data\CAE)-Files\SolidW	arks\SLD-019-SPINE-BT	-32-0001 sldprt		Pending	Pending				500	
1097	C:\GlobalEdge\data\CAE)-Files\SolidW	orks\SLD-017-SPINE-CT	-32-0001.sldprt		Pending	Pending				Unc	check
2 1098	C:\GlobalEdge\data\CAE	0-Files\SolidW	orks\SLD-015-FILL-PNL-	1627-0001.sldprt		Pending	Pending				Ex	port
											Test-	Results
											Cl	ear
											Cl	ose
EXPORT OPTIONS										•		
🕑 DXF Files 🛛 Vers	ion: none 🗸	STEP F	le Version: AP203	~	Default She	et Metal Cate	gory: SHT 🗠	SHEET ME	TAL			
DWG Files · Vers	ion: R2013 🗸	🗌 STL File	s		Default	Sheet Metal 9	ityle: 🔍 🗸	·				
ACIS(SAT) Files		Additive	Manufacturing			Bend Re	size: None	~	🛃 Save Moo	lel Changes		
IGES Files		📄 3D Mar	ufacturing	(Documen	t Link	🔽 Data	Import	🛃 Manufacti	urability Test		
🗌 2D PDFs	3D PDFs	U JPEG F	le	(Extended	Data DXF	🖂 Silent	Mode	🗌 Debug Mo	de	7	Total File
Output Directory	Save Location			DXF Impo	rt Rules:	olidWorks C/	AD Interface			~	12	Open File
C:\GlobalEdge\data\	OXF-Output										Output	Location
											100	%
												,



2.3 – Sheet Metal Part Batch Processing / Manufacturability Testing

These steps illustrate the processing of a batch of SolidWorks sheet metal parts.

Workflow Steps

1. The first step is to launch SolidWorks:



2. Select "Tools > Global Edge > Export Files" option:





3. Select "Batch" option:

	Batch #::	Ts	pe:	~							Date/Time:			Open File H	ilter
rocessin	g Part #:											Status:	~	O All CAD I	Files
Р	art Type:		~	Materiat		~				P	ocessing Task:	Of:		O Assemble	9
Bend	Process:										- Thickness:			O Sheet M	.etal
1	File Path:													Filt	or
c	peration: Rea	dy										Total Task	s:		
Fask#	Doc #	File							Material	Thickness	Bend Radius	Mfr Test Results	Status	Bato File Se	ch elect
														Work D	lueur
														- C - L	
														Selec	cAir
														Unch	ieck
														Ехро	ort
														Test-R	esult
														Clea	ar
														Clos	se
EXPORT	OPTIONS														
DXF I	iles · Version	none	~	STEP F	le · Version:	AP203	~	Default She	eet Metal Cate	gory: SHT 🕓	SHEET MET	AL			
DWG	Files - Version	R2013	~	🗌 STL File	s			Default	Sheet Metal S	Style:	/				
ACIS	SAT) Files			Additive	Manufacturing	3			Bend Re	size: None	~	🔽 Save Mod	lel Changes		
GES	Files			📄 3D Mar	ufacturing			Documer	nt Link	🔽 Data	Import	🛃 Manufactu	urability Test		
2D PI	DFs	🗌 3D PD	Fs	JPEG Fi	le			Extended	d Data D⊠F	🛃 Silen	Mode	🗌 Debug Ma	ode	0.1	Total
Output	Directory	Save Locat	ion				DXF Im	port Rules:	SolidWorks C	AD Interface			~	0 1	Open
\Global B	dge\data\DX	F-Output												Output L	ocati
															<i>%</i>

4. Highlight "Batch #: 5" followed by "OK" option:

🖳 Global	Edge - Work Queue Batch: Global Edge Windo	ws Demo Server					-	
Selected	Batch #:: 5 CAD Process V Batc	ch to Process Ben	d Process Tes	st Parts		Priority: Norma	- v	Add
Assi	gned To: Idc 🗸 🗸 Larr	y D. Colbourn				Status: Pendin	ig v	Ok
	Draft: 0 Pending: 15	Open:	0	WIP:	0			Find
	On Hold: 0 Failed: 0	Closed:	Ca	inceled:	0	Total:	0	Clear
	Date: Friday , November 8, 2024 , ■▼							Cance
Batch #	Batch Description	Assigned To	Туре	Date/Time	Priority	Closed	Total	Status
5	Batch to Process Bend Process Test Parts	ldc	Configur	11/8/2024	0	0	0	Pending
3	Batch to Process Demo Parts	ldc	Configur	11/8/2024	0	0	0	Pending
2	Batch to Process Light Fixture Assembly	ldc	Configur	11/8/2024	0	0	0	Pending
1	Batch to Process Utility Cabinet Order	ldc	Configur	11/8/2024	0	0	0	Pending



5. Check first five parts to process, then select "*Export*" option:

Ba	tch #::	5 Type: CAD Pr	ocess V Batch to Process E	Bend Process Test Parts			Date/Time:	11/8/2024 11:46/	λM.	Open File File
Processing P	Part #:							Status:	^p ending ~	All CAD TH
Part	Type:	~	Material	~		Pr	ocessing Task:	Of:	5	Assembly
Pond Pr							- Thickness			O Sheet Meta
Denutio							THICKINGSS.			O Part
File	Path:									Filter
Ope	ration: Rea	dy						Total Task	s: 15	Batch
Fask# D	loc#I	File			Material T	hickness	Bend Radius	Mfr Test Results	Status	Date:
1027 1	021 (C:\GlobalEdge\data\CAL	O-Files\SolidWorks\BP-01-GAL-G	60-06350-064.sldprt	G60	0.063500	0.064000	Pass	Open	File Sele
1028 1	022 (C:\GlobalEdge\data\CAL	O-Files\SolidWorks\BP-02-GAL-G	60-07850-079.sldprt	G60	0.078500	0.079000	Fail	Open	Work Out
1029 1	023 (C:\GlobalEdge\data\CAD	O-Files\SolidWorks\BP-03-GAL-G	60-10840-108.sldprt	G60	0.108400	0.108000	Pass	Open	in one que
2 1030 1	024 (C:\GlobalEdge\data\CAL	D-Files\SolidWorks\BP-04-SS-304	-4-05000-025.sldprt	304-4	0.050000	0.025000	Fail	Open	SelectA
2 1031 1	025 (C:\GlobalEdge\data\CAE	O-Files\SolidWorks\BP-05-SS-304	-4-06250-050.sldprt	304-4	0.062500	0.050000	Pass	Open	
01032 1	026 (C:\GlobalEdge\data\CAD	O-Files\SolidWorks\BP-06-SS-304	-4-07812-125.sldprt	304-4	0.078120	0.125000	Fail	Open	Unchec
01033 1	027 (C:\GlobalEdge\data\CAI	D-Files\SolidWorks\BP-07-SS-316	-2B-07812-020.sldprt	316-2B	0.078120	0.020000	Pass	Open	
0 1034 1	028 (C:\GlobalEdge\data\CAI	D-Files\SolidWorks\BP-08-SS-316	-2B-09370-030.sldprt	316-2B	0.093700	0.030000	Fail	Open	Export
01035 1	029 (C:\GlobalEdge\data\CAI	D-Files\SolidWorks\BP-09-SS-316	-2B-14062-120.sldprt	316-2B	0.140620	0.120000	Fail	Open	Test-Red
0 1036 1	030 0	C:\GlobalEdge\data\CAI	O-Files\SolidWorks\BP-10-AL-505	2-H32-05082-100.sldprt	5052-H32	0.050820	0.100000	Fail	Open	103(1103
01037 1	031 (C:\GlobalEdge\data\CAI	D-Files\SolidWorks\BP-11-AL-505	2-H32-06408-105.sldprt	5052-H32	0.064080	0.105000	Pass	Open	Clear
01038 1	032 (C:\GlobalEdge\data\CAL	O-Files\SolidWorks\BP-12-AL-505	2-H32-08081-125.sldprt	5052-H32	0.080810	0.125000	Fail	Open	
039 1	033 (C:\GlobalEdge\data\CAI	O-Files\SolidWorks\BP-13-CRS-C	RS-04780-050.sldprt	CRS	0.047800	0.050000	Pass	Open	Close
040 1	034 (C:\GlobalEdge\data\CAD	O-Files\SolidWorks\BP-14-CRS-C	RS-07470-070.sldprt	CRS	0.074700	0.070000	Fail	Open	
	005			DO 10450 000 11 1	000	0.104500	0.00000	-	^	
EXPORT O	PTIONS					_				
DXF File	s ·Version	none ~	STEP File - Version: AP:	203 V Defaul	t Sheet Metal Category	y: SHT 🗸	SHEET ME	TAL		
DWG Fi	les - Version	R2013 ~	STL Files	De	efault Sheet Metal Style	e:				
_ ACIS(SA	(T) Files		Additive Manufacturing		Bend Resize	e: None	~	🛃 Save Moo	iel Changes	
🗌 IGES Fil	es		3D Manufacturing	Doc	ument Link	🔽 Data	Import	🛃 Manufacti	arability Test	
D 2D PDF	\$	3D PDFs	JPEG File	Exte	inded Data DXF	🔽 Silent	Mode	🗌 Debug Mo	de	0 To
Output Di	rectory	Save Location		DXF Import Rule	s: SolidWorks CAD	Interface			~	0 Op
\GlobalEdg	ge\data\DX	F-Output								Output Loc
										%

7. When the conversion process is completed, select "OK" and Export Screen will be updated:

Batch #::	5 Type: CAD Pro	cess v Batch	to Process Bend	Process Test P	arts			Date/Time:	11/8/2024 11:46.	AM	Open File	e Filter
Processing Part #:	BP-05-SS-304-4-06250-050	BEND	PROCESS TEST	T PART 05					Status:	Pending 🗸	O All CA	D Files
Part Turner	Sheet Metal	Material 204-4		204.4 STAINI	ESS STEEL		D.	ocessing Task:	5 06	5	 Asser 	nbly
mart Type:		Materia: 304-4	~	304*4 3 I AINI	LE33 31EEL		r i	ocessing rask.	3 01.		O Sheel	Metal
Bend Process:	5 Air Bend, SS, 3	304-4, 0.06250, Rad	lius - 0.050					Thickness:	0.063	25 in	O Part	
File Path:	C:\GlobalEdge\data\CAD+File	es\SolidWorks\BP-0	05-SS-304-4-06250	0-050.sldprt							F	ilter
Operation:	Ready								Total Task	.s: 15		
Task# Doc #	File					Material T	hickness	Bend Radius	Mfr Test Results	Status	В	atch
1027 1021	C:\GlobalEdge\data\CAD	-Files\SolidWorks\F	P-01-GAL-G60-06	5350-064 sldort		660	0.063500	0.064000	Fail	Fal	File	Select
1028 1022	C:\GlobalEdge\data\CAD	-Files\SolidWorks\F	P-02-GAL-G60-07	7850-079.sldnrt		G60	0.078500	0.079000	Fail	Fail	A.6	0
1029 1023	C:\GlobalEdge\data\CAD	-Files\SolidWorks\B	P-03-GAL-G60-10	0840-108 sldprt		G60	0.108400	0.108000	Fail	Fail	won	(Queue
1030 1024	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-04-SS-304-4-05	5000-025.sldprt		304-4	0.050000	0.025000	Fail	Fail	Se	ectAll
1031 1025	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-05-SS-304-4-06	5250-050.sldprt		304-4	0.062500	0.050000	Fail	Fail		
1032 1026	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-06-SS-304-4-07	7812-125.sldprt		304-4	0.078120	0.125000	Fail	Open	Un	check
1033 1027	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-07-SS-316-2B-0	07812-020.sldpr	t	316-2B	0.078120	0.020000	Pass	Open		
1034 1028	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-08-SS-316-2B-0	09370-030.sldpr	t	316-2B	0.093700	0.030000	Fail	Open	E:	cport
1035 1029	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-09-SS-316-2B-	14062-120.sldpr	t	316-2B	0.140620	0.120000	Fail	Open	Test	Results
1036 1030	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	8P-10-AL-5052-H3	2-05082-100.sld	lprt	5052-H32	0.050820	0.100000	Fail	Open		TICauka
1037 1031	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	8P-11-AL-5052-H3	2-06408-105.sld	lprt	5052-H32	0.064080	0.105000	Pass	Open	C	lear
1038 1032	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	8P-12-AL-5052-H3	2-08081-125.sk	lprt	5052-H32	0.080810	0.125000	Fail	Open		
1039 1033	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-13-CRS-CRS-0	4780-050.sldprt		CRS	0.047800	0.050000	Pass	Open	C	lose
1040 1034	C:\GlobalEdge\data\CAD	-Files\SolidWorks\E	P-14-CRS-CRS-0	7470-070.sldprt		CRS	0.074700	0.070000	Fail	Open		
										^		
DXE Files - Vi	IS ersion: none V		ersion: AP203	~	Default St	neet Metal Caterror	ur SHT	SHEET ME	τοι			
DWG Files - Vi	ersion: R2013 V	☐ STL Files			Defau	It Sheet Metal Style	e: V					
ACIS(SAT) File	\$	Additive Manu	facturing			Bend Resize	e: None		🖂 Save Mo	del Changes		
IGES Files		3D Manufactu	ring		Docum	ent Link	🔽 Data	Import	🖂 Manufact	urability Test		
2D PDFs	3D PDFs	JPEG File			Extende	ed Data DXF	🖂 Silent	Mode	🗌 Debug Me	ode		
Output Directory	Save Location			DYE Im	port Pulse:	SolidWorks CAD	Interface			~	0	Open Fil
C:\GlobalEdge\data	NDXF-Output			0.01	port ruica.	Construction of the					Outou	Location
·····												
											100	%
									Database: glob	Us	ername: Idc	





8. Highlight part and select "Test Results" option to display the following screen:





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(T-603) "manufacture_test" – Manufacturability Test Table (T-603-dem_mfgt.unl)

TEST #	TEST DATE	TASK #	PART #	PROCESS	BP #	TEST RESULTS	STATUS
1	2023-05-26 13:00:30	1001	BP-01-GAL-G60-06350-064	BEND	1	Passed Bend Process Test with Warning	Pass
2	2023-05-26 13:00:30	1002	BP-02-GAL-G60-07850-079	BEND	2	Failed Bend Process Test	Fail
3	2023-05-26 13:00:30	1003	BP-03-GAL-G60-10840-108	BEND	3	Passed Bend Process Test with Warning	Pass
4	2023-05-26 13:00:30	1004	BP-04-SS-304-4-05000-025	BEND	4	Failed Bend Process Test	Fail
5	2023-05-26 13:00:30	1005	BP-05-SS-304-4-06250-050	BEND	5	Passed Bend Process Test with Warning	Pass
6	2023-05-26 13:00:30	1006	BP-06-SS-304-4-07812-125	BEND	6	Failed Bend Process Test	Fail
7	2023-05-26 13:00:30	1007	BP-07-SS-316-2B-07812-020	BEND	7	Passed Bend Process Test with Warning	Pass
8	2023-05-26 13:00:30	1008	BP-08-SS-316-2B-09370-030	BEND	8	Failed Bend Process Test	Fail
9	2023-05-26 13:00:30	1009	BP-09-SS-316-2B-14062-120	BEND	9	Failed Bend Process Test	Fail
10	2023-05-26 13:00:30	1010	BP-10-AL-5052-H32-05082-100	BEND	10	Failed Bend Process Test	Fail
11	2023-05-26 13:00:30	1011	BP-11-AL-5052-H32-06408-105	BEND	11	Passed Bend Process Test with Warning	Pass
12	2023-05-26 13:00:30	1012	BP-12-AL-5052-H32-08081-125	BEND	12	Failed Bend Process Test	Fail
13	2023-05-26 13:00:30	1013	BP-13-CRS-CRS-04780-050	BEND	13	Passed Bend Process Test with Warning	Pass
14	2023-05-26 13:00:30	1014	BP-14-CRS-CRS-07470-070	BEND	14	Failed Bend Process Test	Fail
15	2023-05-26 13:00:30	1015	BP-15-CRS-CRS-13450-060	BEND	15	Passed Bend Process Test with Warning	Pass

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Demo Section 3: Document Interface / Quoting

Global Edge[®] Integrated Manufacturing starts with the process of receiving RFQ (Request for Quote) information from a potential customer. The quoting stage includes the automated capture, organization, and storage of additional RFQ information such CAD files and product specifications that need to be analyzed for the purpose of developing and accurate sales quote. The sections within this quoting stage include:

- **3.1 Outlook Interface / Incoming Information**
- **3.2 DXF Flat File Processing / Manufacturability Testing**
- **3.3** Automated Sales Quote / Routing Generation

Section 3: Document Interface / Quoting Overview

The following is an overview of Section 3 and what is illustrated within each of the steps.

- <u>3.1 Outlook Interface / Incoming Information</u>: The steps within this section illustrate how the Global Edge software can optionally automate the task of managing incoming request for quote information. Automated tasks illustrated include:
 - Automated Capture of Incoming Email Information
 - Automated Generation of Sales Opportunities Linked to Prospect / Customer Record
 - Automated Organization and Storage of Received RFQ Information
- <u>3.2 DXF Flat File Processing / Manufacturability Testing</u>: The steps within this section illustrate how *Global Edge* automates the importation DXF flat files and the testing of sheet metal parts to help ensure they can be successfully fabricated before reaching the shop floor. Automated tasks illustrated include:
 - Automated Importation and Analysis of Sheet Metal Part Parameters
 - Manufacturability Testing
- <u>3.3 Automated Sales Quote Generation</u>: The steps within this section illustrate how the *Global Edge* software can automatically generate routings based on part parameters from imported DXF Files and rolled up time and material costs. Automated tasks illustrated include:
 - **o** Automated Generation of Sales Quote with Imported Parts Attached
 - Automatically Generates Routings from Part Parameters
 - Automatically Rolls Up Costs for Multiple Quantity Production Runs
 - **o Contact / Sales Opportunity Management**



3.1 – Outlook Interface / Incoming Information

These steps illustrate how the automated quoting process can automatically capture, organize and store incoming RFQ (Request For Quote) information.

Sample Request For Quote – Fabricated Sheet Metal Parts





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Workflow Steps

1. Receive RFQ (Request For Quote) in Microsoft Outlook including attachments:



2. Select "Global Edge > Inbound" icon to execute capturing attachments of inbound email:



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3. After selecting "OK", the following Global Edge - Outlook Interface screen is displayed:

Global Edge - Outlook Interface	>
THE HEIP Customer #: 1001 ABC MANUFACTURING	Inbound Outbound Opportunity Customers Queue
Reference #: ABC-MFG Contact #: 1	Subject: ABC Manufacturing - Request for Quote Date: 4/16/2021 💌
Contact: Robert Smith, V.P. of Engineering	Opportunity:
Pre-First-MI-Last Mr. Robert D Smith	Body: April 16, 2021 Mr. Steve D. Williams, Sales EngineerLDC Manufacturing
Title: V.P. of Engineering Role:	Incorporated1000 West Product AvenueP.O. Box 5544Productionville, WI 55555 -4444 Dear Steve, Attached is a Request For Quote to have sheet metal parts
Phone-Ext 414-555-1100 101 Cell: 414-555-1100	fabricated by your company that I would like for you to provide me with a quote
Email: rsmith@abc-manufacturing.com	as soon as possible. Attached are all of the necessary CAD files. Please let me know if you have any questions. Sincerely, Robert Smith, V.P. of
Address 1: 5000 West Industrial Way	EngineeringABC Manufacturing Company5000 West Industrial WayMilwaukee, WI 55555 Phone: 414-555-1100 Ext: 101Email: rsmith@abc-manufacturing.com
	Attachments:
	File Name
Wi 53201	DEMO-00-LIGH I.sidasm
Country: USA	✓ DEMO-02-LENSE.sldprt
Status:	DEMO-03-LENSE-BRACKET.sldprt
Find Ontions	DEMO-04-HOUSING-FLANGE.sldprt
E-Mail Address Contact Name Company Address	Queue VIDEMO-05-LEINSE-RET-BRKT.sidprt
Domain Name Company Name Match: OR 💌	Save Options
Find Customer Update Customer Select Contact Update Contact	Image: Subject Image: Body Image: Attachments Opportunity Link E-Mail
LOBAL EDGE	
autox interisce	Database: globaledge Username: Idc

4. Select the "*Opportunity*" option to display the current Sales Opportunities that are attached the existing ABC MANUFACTURING customer record stored in the *Global Edge* database:

💀 Global Edge -	Outlook Interface				-	- 🗆	×
File Help							
Customer #:	1001 ABC MANUFACTURING	Inbound O	utbound Opportunity Custo	omers Queue			
Reference #:	ABC-MFG Contact #:	1 Oppr #:					
Contact:	Robert Smith, V.P. of Engineering	Date:	4/16/2021 💌				
Pre-First-MI-Last	Mr. Robert D Smith	Stage:		F	tep:		-
Title:	V.P. of Engineering Role:	Interest:		-			
Phone-Ext	414-555-1100 101 Cell: 414-555-1100) Docs:				Brows	e
Email:	rsmith@abc-manufacturing.com	Potential:		Status:	•	Add/Sa	ve
Address 1:	5000 West Industrial Way	Oppr #	Description	Date	Potential	Status	
Address 2:		7	Customized Light Fixture	8/23/2019	25000.00	New	
City / State / Zip:	Milwaukee WI 53201	2	Configurable Utility Cabinet Light Fixture Sheet Metal	8/14/2017 8/14/2017	25000.00 25000.00	New New	
Country:	USA						
Status:							
5 10 r							
E-Mail A	ddress 🗌 Contact Name 🔲 Company Addre	ess					
Domain 1	Name Company Name Match: OR	•					
	E E E						>
Find Custo	omer Update Customer Select Contact Update	e Contact					
GI OBAI	EDGE"						
Outlook Interface							
		[)atabase: globaledge	Userna	me: ldc		



5. Fill in upper-right portion of screen with Sales Opportunity information, then select "Add/Save" option:

🛃 Global Edge - Outlook Interface		
File Help		
Customer #: 1001 ABC MANUFACTURING	Inbound Outbound Opportunity Customers Queue	
Reference #: ABC-MFG Contact #: 1	Oppr #. 29 Quote for Sheet Metal Parts	
Contact: Robert Smith, V.P. of Engineering	Date: 4/16/2021 💌	
Pre-First-MI-Last Mr. Robert D Smith	Stage: 4 🗨 Quoting Stage Rep: Robert D. Smith	•
Title: V.P. of Engineering Role:	Interest: SHEET METAL FAB. 🗾 Light Fixture	
Phone-Ext 414-555-1100 101 Cell: 414-555-1100	Docs:	Browse
Email: rsmith@abc-manufacturing.com	Potential: Status: New -	Add/Save
Address 1: 5000 West Industrial Way	Oppr # Description Date Potential	Status
Address 2:	29 Quote for Sheet Metal Parts 4/16/2021 7 Customized Light Fixture 8/23/2019 25000.00	New New
City / State / Zip: Milwaukee WI 53201	2 Configurable Utility Cabinet 8/14/2017 25000.00 1 Light Enture Sheet Metal Parts 8/14/2017 25000.00	New
Country: USA		
Status:		
Find Options Image: Contact Name Image: Company Address Image: Domain Name Image: Company Name Match: Image: Orall or		
Find Customer Update Customer Select Contact Update Con	tact	>
	Database: globaledge Username: ldc	

6. Select "Browse" option and the following prompt is displayed:



7. When answering "Yes" option, the following screen is displayed:





8. Highlight new Sales Opportunity folder and select "OK" option and the following prompt is displayed:



9. Select "OK" option which adds the selected document path to the below screen:

🖳 Global Edge - Outlo	ok Interface									-		×
File Help												
Customer #: 1001	ABC MANUFAC	TURING		Inbound 0	utbound	Opportunity Cu	istomers	Queue				
Reference #: ABC-	MFG		Contact #: 1	Oppr #:	29	Que	ote for She	eet Metal Pa	irts			
Contact: Robe	t Smith, V.P. of Engineerin	ng		Date:	4/16/2	2021 💌						
Pre-First-MI-Last Mr.	Robert	D Smith		Stage:	4 👻	Quoting Stage		F	Rep: Robert	D. Smith		•
Title: V.P. o	f Engineering	Role:		Interest:	SHEET	METAL FAB.	▼ Lig	ht Fixture				
Phone-Ext 414-5	55-1100 101	Cell:	414-555-1100	Docs:	C:\demo	Sales\001001-A	BC-MANU	FACTURING	\2021\OPR-0	000029-	Browse	
Email: rsmith	@abc-manufacturing.co	m		Potential:			Statu	s: New	-	_	Add/Sav	/e
Address 1: 5000	West Industrial Way			Oppr #	Descript	tion		Date	Po	tential	State	JIS
Address 2:				29 7	Quote fo	or Sheet Metal Pa ized Light Fixture	rts	4/16/2021 8/23/2019	25	000.00	New New	1
City / State / Zip: Milwa	ukee	WI	53201	2	Configu	rable Ütility Cabine dure Sheet Metal	et Parts	8/14/2017	25 25	000.00	New	
Country: USA				1	byn ro		i alto	0/14/2017	20	000.00		
Status:												
Find Options												
E-Mail Address	Contact Nar	me 🗖 C	Company Address									
Domain Name	Company N	ame Mat										
Find Customer	Update Customer	Select Contac	t Update Contact	<								>
GLOBAL E	DGE											
Outlook Interface				1	atabase	: globaledge		Userna	ime: ldc			

10. Select "Inbound" tab, then select the "Link E-Mail" option to update database and move selected attachments to Sales Opportunity folder:

💀 Global Edge -	Outlook Inte	rface							-		×
File Help											
Customer #:	1001	ABC MANUFACT	URING		Inbound Outbo	und Op	oportunity Customers	Queue			
Reference #:	ABC-MFG	,		Contact #: 1	Subject:	ABC Ma	nufacturing - Request f	or Quote	Date: 4	/16/2021	-
Contact:	Robert Smith,	V.P. of Engineering)		Opportunity:	29	Quote for Sheet Met	al Parts			
Pre-First-MI-Last	Mr. Rober	rt	D Smith		Body:	April 16	, 2021 Mr. Steve D. Will	iams, Sales Enginee	rLDC Manufac	turing.	_
Title:	V.P. of Engine	ering	Role:			Incorpo -4444 D	rated1000 West Produc Jear Steve, Attached is a	t AvenueP.O. Box 55 a Request For Quote	544Production e to have shee	ville, WI 55 t metal part	555 s
Phone-Ext	414-555-1100) 101	Cell:	414-555-1100		fabricat	ed by your company that as possible. Attached	at I would like for yo are all of the neces	u to provide me sary CAD files	e with a qu Please le	ote t me
Email:	rsmith@abc-r	manufacturing.com	l			know if	you have any question	s. Sincerely, Robert	Smith, V.P. of	whilewareka	
Address 1:	5000 West In	dustrial Way			Attachments:	WI 555	55 Phone: 414-555-1100	0 Ext: 101Email: rsmi	ith@abc-manu	facturing.c	om
Address 2:						File Nar	me				^
City / State / Zip:	Milwaukee		WI	53201		DEN	10-00-LIGHT.sldasm				
Country:	USA					DEN	10-01-LENSE-FRAME.sl	dprt			- 11
Status:							IO-02-LENSE-BRACKET	F.sldprt			
						DEN	10-04-HOUSING-FLANG	àE.sldprt			
Find Options	ddress	Contact Nam	e 🗆 C	Company Address	Queue	DEN	10-05-LENSE-RET-BRK	T.sldprt			× .
🗌 Domain I	Name	Company Na	me Mat	tch: OR 💌	Save Option	5					
Find Custo	omer Upda	ate Customer	Select Contac	t Update Contact	Subject	✓ Body	Attachments	Opp	ortunity	Link E-M	ail
GLOBAI	L <mark>E</mark> DG	E									
					Data	ibase: gli	obaledge	Username: Idc			

11. Upon completion of software execution, the following message is displayed:



12. The following shows a sample of the folders that are automatically created when a Sales Opportunity is generated and attached to a customer record in the *Global Edge* database including how that attached files are stored:

📙 🛃 🤿 🖛 🗧 Attachments							- 0	×
File Home Share View								^ ?
Image: Pin to Quick access Copy Paste Copy path Image: Pin to Quick access Paste Paste shortcut	Move Copy to * Copy	New item • New folder	Properties	Select al	ll one election			
Clipboard	Organize	New	Open	Selec	t			
← → × ↑ 📙 « demo » Sales » 00	1001-ABC-MANUFACTURING > 20	21 > OPR-000029-04-16-2	021 > Attachments	~	5	, ○ Search	Attachments	
✓ Sales	↑ □ Name	^	Date modified	1	Туре		Size	
V 001001-ABC-MANUFACTURING	N DEM	MO-00-LIGHT.sldasm	4/16/2021 4:52	2 AM	SOLIDW	ORKS Ass	270 KB	
> 🔒 2017	DEM	MO-01-LENSE-FRAME.sldprt	4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	256 KB	
2018	DEN	MO-02-LENSE.sldprt	4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	57 KB	
2019	S DEM	MO-03-LENSE-BRACKET.sldp	ort 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	160 KB	
2020	Der	MO-04-HOUSING-FLANGE.s	Idprt 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	201 KB	
× 2021	C DEM	MO-05-LENSE-RET-BRKT.sld	prt 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	138 KB	
OPR-000020-04-16-2021	DEN	MO-06-FIXTURE-HOUSING.s	Idprt 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	142 KB	
	I DEM	MO-07-YOKE-BRACKET.sldp	rt 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	208 KB	
Attachments	DEM	MO-08-DOOR-GASKET.sldpr	t 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	66 KB	
Import-Files	/ DEM	MO-09-FRAME-CHANNEL.sl	ldprt 4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	66 KB	
> 001002-MAJOR-CORPORATION	DEN	VIO-10-BOLT.sldprt	4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	60 KB	
> 001003-XYZ-INCORPORATED	DEN	MO-11-NUT.sldprt	4/16/2021 4:52	2 AM	SOLIDW	ORKS Part	62 KB	
> 001004-HORIZON-TECHNOLOGIES	RFC	Q-ABC-1001-03272020.pdf	4/16/2021 4:52	2 AM	Adobe A	crobat D	147 KB	
13 items								



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Light Fixture CAD Models





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3.2 – DXF Flat File Processing / Manufacturability Testing

Global Edge[®] **Engineering Assistant** provides automated CAD model analysis to automatically analyze CAD part parameters and store these parameters in an SQL database. These CAD part parameters can then be utilized to automatically generate optimal routings including time and material cost rollups. Additionally, these CAD part parameters can be incorporated into DXF flat files to facilitate automated bend program generation for both press brakes and panel benders.

Workflow Steps

1. The first step is to open the *Global Edge*[®] *Engineering Assistant* software by clicking on the following desktop icon:



2. This will display the following screen form and menu options. Select "Import > Import CAD Files" option to display Import CAD Files screen. Select "Create DXF(s)" option to automatically generate 2D DXF Flat Files from 3D SolidWorks CAD Models. This process includes automatically embedding Extended Data into the 2D DXF Flat Files to drive Automated Bend Program Generation, Automated Routing Generation, and Automated Sales Quote Generation:

M Import CAD Files							- 0 X
Batch #:: 5	Configuration - Proc	cess Bend Process Parts		DXF IMAGE	Zoom: Extents	 Rotation: 	Work Queue
Queue Task #: 1016	Import and Test PART #: BP-	01-GAL-G60-06350-064					Find Customer
Item #: 1	of Total: 15	Imported:	Next Previous				Opportunity
DXF Files: 0	CAD Models:	Failed:	Other Formats:	• •		• :	
Import Path: C:\GlobalEd	ge\demo\CAD-Files\BP-01-GA	L-G60-06350-064.SLDPRT					New Quote
Operation:			File Type: SolidWorks				Find File/s)
				-			
Customer #. 1001	ABC MANUFACTURING			-			Cleate DAP(s)
Ouote #]		Dart Statue				Preview DXF
Part # BP-01-GAL	G60.06350.064		Obc 0 0000				Import
Description: BEND PROC	ESS TEST PART 01		Line: Items:	- · · ·		°	Routing
File Name:							Save
							Print
Main Assembly:							Documents
Sub-Assembly:				Scaling	d Scaled	Line Key	View-Log
Sheet Metal: SHT				Flat Length:		Down Bend	Clear
Parts				Flat Width:		Etch	Finish
				Adjusted Scale: 1.0000000		Refresh	Close
DXF Import F	Rules: SolidWorks Format		-	Pending Items:	Import Status:]	
Standard Bend Pr	rocess:		•				PART UPDATE
Flat Length: 96	Material: G60		☑ Dete	tem Part Number	uty Status	Auto-Configure	Pending
Elat Width: 71 547908	Thickness: 16 GA	× 0.063500	Dete	4		E Build Routing	Active
Extrusions: 0	Cutouts: 21	Tolerance 0.00500	D Total Bends: 11			Mfr Test	Under Revision
Perimeter: 335.095817	Cutout Perim: 262 558	No. Up Bends: 6	Down Bends: 5			I✓ Prompt Data	In-Active
Rpd Holes: 20	Bound Sizes: 2	Int Up Bends: 0	Int Do Bends: 0			Write Log File	
Obrd Holes: 0	Obrod Sizes: 0	Max Up Bend: 7	Max Do Bend: 7	- /		Detailed Log	, i fomporary
Rect Holes: 1	Rect Sizes: 1	No. Hems: 1	Total Folder 1			Debug	
Other Holes: 0	Other Sizes: 0	Max Bend Len: 80					L
Cutout Dist: 450,789009	Part Dist: 83.773954	UOM: Inches	▼ Standard: Not Set				
DXF IIOM: Not Set	Configuration: OUOTING			-			
Line of the Nor Set	Soundar 10001MG						



3. Select "Find File(s)" option and select the DXF file(s) to process with the Select File screen:

EA Select File:				×
\leftarrow \rightarrow \checkmark \uparrow $\stackrel{\bullet}{=}$ \rightarrow This PC \Rightarrow	OS (C:) > GlobalEdge > demo > DXF-Files		~ C ,	⊖ Search DXF-Files
Organize 👻 New folder				≣ ▾ 💷 💡
> 📒 Attachments	Name	Date modified	Туре	Size
> 📒 Documents	🔀 DEM-01-APRON.dxf	5/6/2022 11:27 AM	DXF File	21 KB
Y This PC	🔀 DEM-02-LOAD-CTR-BOX.dxf	5/6/2022 11:27 AM	DXF File	17 KB
	🕮 DEM-03-BOTTOM-DLH.dxf	5/6/2022 11:27 AM	DXF File	17 KB
	C 🔀 DEM-04-HOUSING.dxf	5/6/2022 11:27 AM	DXF File	30 KB
> Documents	🕮 DEM-05-PANEL.dxf	5/6/2022 11:27 AM	DXF File	10 KB
Music				
> V Music				
> Pictures				
> Nideos				
> 😐 OS (C:)				
File name: DEM-04	-HOUSING.dxf		~ A	All (*.*) ~
				Open Cancel

DXF File Processing (without CAD System)

Global Edge[®] **Engineering Assistant** provides the capability to process DXF Flat Files without the use of a 3D CAD System such as SolidWorks, Solid Edge, Inventor, Pro/ENGINEER (Creo), Catia, etc. This includes the same capabilities included in the **Global Edge SolidWorks CAD Interface** minus the capability of producing the DXF Flat File from the associated 3D Sheet Metal Part Model.

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- 🔣 Import CAD Files П × DXF IMAGE Zoom: Extents Queue Task # ▼ Rotation: 0 Customer # Opportunity # Import Path: QUOTE ITE Part Status: Quote #: Part #: DEM-04-HOUSING Qty: Description: SHEET METAL HOUSING Line: Items: File Name: C:\GlobalEdge\demo\DXF-Files\DEM-04-HOUSING.dx Files Selected: 1 Operation: PART CATEGORY AND STYLE Main Assembly: • • • -Sub-Assembly: Sheet Metal: SHT 💌 SHEET METAL -Parts: • • Scaling Line Key Up Bend Down Bend Emboss Etch Imported Scaled • DXF Import Rules: SolidWorks Format Flat Length Clea SHEET METAL PART PROPERTIES Flat Width: Flat Length: • ✓ Detect Finish Material Adjusted Scale: 1.0000000 Detect Flat Width: Thickness • Refresh Cutouts Tolerance: 0.005000 Total Bends: Extrusions Pending Items: Import Status: No. Up Bends: OPTIONS PART UPDATE Perimeter Cutout Perim Down Bends: Qty Status Item Part Number Auto-Configure Pending Rnd Holes: Round Sizes: Int. Up Bends: Int. Dn Bends: Build Routing Active Obrd Holes: Obrnd Sizes: Max Up Bend: Max Dn Bend: Prompt Data Under Revision Rect Holes: Rect Sizes No. Hems: Total Folds: Auto Queue In-Active Other Holes: Other Sizes: Max Bend Len: 🔽 Write Log File C Obsolete Detailed Log ✓ Temporary UOM: Inches Cutout Dist: Part Dist: Standard: Not Set Debug DXF UOM: Not Set Configuration: ROUTING ROUTING CONFIGURATION
- 1. This displays the selected DXF file on the Import CAD Files screen:

Global Edge – Import DXF Files screen provides an easy method to import 2D DXF Sheet Metal Parts. The purpose of this functionality is to import the drawing attribute information into the *Global Edge* Engineering Data Warehouse for the purpose of Automated Routing Generation. Once a sheet metal part is imported, information such as: Part Height, Part Width, Part Perimeter, Number of Folds, Number of Hems, Number of Cutouts, and Cutout Perimeter is then stored in the *Global Edge* system.

The *Global Edge Engineering Assistant* provides the ability to process DXF Flat Files without the need of a 3D CAD system. The only required user input is specifying Material, Thickness, and Bend Radius if this is not included in the DXF Flat File. The above screen provides the ability to automatically launch an available 3D CAD system such as SolidWorks, Solid Edge, Inventor, Pro/ENGINEER (Creo), Catia, etc. This allows the user to produce DXF Flat Files with the appropriate 3D CAD system and make these files a part of the complete workflow of the *Global Edge* system including Manufacturability Testing and the incorporation Extended Data to each DXF Flat File to facilitate Automated Bend Program Generation.



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1. The next step is to select the option to have the software automatically generate routings for the selected part:

Minport CAD Files					- 🗆 X
Queue Task #:		DXF IMAGE	Zoom: Extents	▼ Rotation: 0	Work Queue
Customer #:					Find Customer
Opportunity #					Opportunity
Import Path:					Find Quote
	Part Statue				New Quote
	City.				
	Line: Items:				Create DXF(s)
File Name: C:\Giobaledge\demo\DXF-FileS\DEM-04-HOUSING.dXT					Preview DXF
Operation:	Files Selected: 1				Import
PART CATEGORY AND STYLE Main Assembly					Routing
Sub-Assembly:					Save
Sheet Metal: SHT Y SHEET METAL					Print
Parte:					Documents
		Scaling	Scaled	Line Key	View-Log
DXF Import Rules: SolidWorks Format	<u>•</u>	Flat Length:		Down Bend	Clear
SHEET METAL PART PROPERTIES	V Detect	Flat Width:		Emboss Etch	Finish
Flat Width: Thickness:	Detect	Adjusted Scale: 1.0000000 🛨		Bréurb	Class
Extrucions: Cutouts: Tolerance: 0.0050	00 Total Bands:				Close
Perimeter: Cutout Perim: No. Un Bends:	Down Bends:	Pending items:	nport status:		
Perinteter. Paul Sizer: Int Lip Bands:	lat Da Beads:	Item Part Number	Qty Status	Auto-Configure	Pending
Chard View Constant View Const	May De Bee de			Build Routing	Active
Dord Holes: Obrid Sizes: Max Up Bend:	Max Un Bend:			Prompt Data	Under Revision
Other Sizes: No. Hems: No. Hems:	l otal Folds: j			Auto Queue	In-Active
Other Holes. Other Sizes: Max Bend Len:				Write Log File	Dbsolete
Cutout Dist: Part Dist: UOM: inches	Standard: Not Set			Debug	· remporary
DAR UOM: Not Set Configuration: ROUTING	IG CONFIGURATION				

The Global Edge Engineering Assistant

provides the capability to define routing configuration rules that can generate routings based on imported CAD part parameters. These routing rules provides the ability to automatically calculate laser cut times based on material, thickness and specific laser capabilities that include:

- Laser Cut Speed
- Perimeter Cut Speed
- Cutout Cut Speed
- Piercing Time
- Load / Unload Time

This also includes machine time for punching, bending, welding, painting, assembly, and other related machine times that can be utilized for things like quoting, cost estimating and scheduling. Select the "**Build Routing**" check box to have the software automatically generate routings with the ROUTING CONFIGURATION selected in the lower portion of the screen.

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1. Select "Import" option which will display the Part Master Update screen:

art Number:	DEM-04-HOUSING	Category/Style			ок
	SHEET METAL HOUSING	Category: SHT - SHEE	T METAL	-	OIL
		Style:		_	Cancel
		Process M Active	Auto-Configure		
		Impor	ted Scaled		
		Flat Length: 19.699142	19.699142		
ustomer #:		Flat Width: 42.193245	42.193245		
Cust Part #:		Adjusted Scale: 1.0000000) ÷		
-Material P	roperties	Editable Part Parameters		- '	Processes
Material:	304-4 V 304-4 STAINLESS STEEL		UOM inches	E B	Blank
Thickness	14 GA. V 0.075	Extrusions: 0	Down Bends: 8	. 🗆 е	imboss
	Certified: No VI IIOM: Inches	No. Up Bends: 0	Int. Dn Bends: 0	Т	urret
	Default Shoet	Int. Up Bends: 0	Max Dn Bend: 0	Π.	.aser
		Max Up Bend: 0	Hem Count:	1 🗆 р	Press Brake
	Sheet Length: 0 Width: 0	Total Bends: 8	Total Folds: 0	1 🗆 р	anel Bend
		Mi. 1 Length: 0	Max Bend Length: 0	1 🗆 р	em Nut
	Pieces per Sheet:	Min \ngle: 10	Max Bend Angle: 93	1 🗆 р	em Stud
-Cutting P	Process	N. re: 0	Max Flange: 0	1 🗆 e	Grain
	Cutting Method: Open	Min PL 0	Min Dn PEM Gap: 0	1 🗆 v	Veld
Asset #:	Laser Turret	Min Embos:	Min Dn Emboss: 0	1 🗆 🛛	Deburr
Config:	ROUTING Open N	Min Louver G	Min Dn Louver: 0	1 🗆 р	Paint
	(Part Drawn	Min Taper Ga,	Min Die Cutout: 0	1	
Brocor		Bend Direction:			
Proces					
Nada					
Mode					
Sta	tus:				

The *Global Edge Engineering Assistant* provides the ability to define routing rules that are executed by the built-in routing configurator. This includes the automated generation of cutting times. The choices in the drop-down include:

- Laser
- Turret
- Open

When selecting the "*Open*" option, the routing configurator will determine the optimal method to cut part based on cost and/or delivery time.

The "*Material Properties*" that are comprised of Material and Thickness are automatically displayed if they are defined in the original CAD model. If they are not defined, the user can select the proper material and thickness that will then subsequently be added to the DXF flat file as extended data.

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t Number:	DEM-04-HOUSING	Category/Style			ок
	SHEET METAL HOUSING	Category: SHT - SHEET	r metal	-	Canar
		Style:		-	Gance
	[Process M Active	Auto-Configure	_	
		Scaling Import	ed Scaled	7	
		Flat Length: 19.699142	19.699142		
istomer #:		Flat Width: 42.193245	42.193245		
ust Part #:		Adjusted Scale: 1.00000000	÷		
Material Pr	roperties	Editable Part Parameters		Б	Processe
Material:	304-4		UOM inches		Blank
hickness	14 GA. ▼ 0.075	Extrusions: 0	Down Bends: 8		Emboss
	Certified: No VOM: Inches	No. Up Bends: 0	Int. Dn Bends: 0		Turret
	Default Sheet	Int. Up Bends: 0	Max Dn Bend: 0		Laser
	Sheet Length: 0	Max Up Bend: 0	Hem Count:		Press Bra
	Blank Length: 0 Width: 0	Total Bends: 8	Total Folds: 0		Panel Ben
	Pieces ner Sheet	Min Bend Length: 0	Max Bend Length: 0		Pem Nut
		Min Bend Angle: 10	Max Bend Angle: 93		Pem Stud
-Cutting P	Process	Min Flange: 0	Max Flange: 0		Grain
	Cutting Method: Laser	Min PEM Gap: 0	Min Dn PEM Gap: 0		Weld
Asset #:		Min Emboss Gap: 0	Min Dn Emboss: 0		Deburr
Config:		Min Louver Gap: 0	Min Dn Louver: 0		Paint
Standard	I Bend Process	Min Taper Gap: 0	Min Die Cutout: 0		
Proces	is #:	Bend Direction: As Drawn			
Rad	UOM:	Flip Ben	ds		
Model					
				•	
Sta	tus:				

The *Global Edge Engineering Assistant* provides the ability to define routing rules that are executed by the built-in routing configurator. This includes the automated generation of cutting times. The choices in the drop-down include:

- Laser
- Turret
- Open

When selecting the "*Open*" option, the routing configurator will determine the optimal method to cut part based on cost and/or delivery time.

The "Editable Part Parameters" section

provides a list of 24 CAD part parameters. These 24 CAD part parameters can optionally be changed by the user need be. The software also analyzes an additional 24 CAD part parameters for a total of 48 CAD part parameters.

This section includes a **"Flip Bends"** option that allows the user to flip Up Bends to Down Bends or vice versa. This is to correct the bend direction from the original CAD model if it does not match the proper machine tool bend direction.

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t Number:	DEM-04-HOUSING	Category/Style		ок
	SHEET METAL HOUSING	Category: SHT 💌 SHE	ET METAL	
		Style:		Cancel
	<u></u>	Process M Active	Auto-Configure	_
		Scaling Impo	orted Scaled	
		Flat Length: 19.69914	19.699142	
ustomer #:		Flat Width: 42.19324	42.193245	
ust Part #:		Adjusted Scale: 1.000000	00 🛨	
Material P	roperties	Editable Part Parameters		Processe
Material:	304-4 V 304-4 STAINLESS STEEL		UOM inches	🗖 Blank
Fhickness:	14 GA.	Extrusions: 0	Down Bends: 8	Emboss
	Certified: No VOM: Inches	No. Up Bends: 0	Int. Dn Bends: 0	Turret
	Default Sheet:	Int. Up Bends: 0	Max Dn Bend: 0	✓ Laser
	Sheet Length: 0 Width: 0	Max Up Bend: 0	Hem Count:	Press Brak
	Blank Length: 0 Width: 0	Total Bends: 8	Total Folds: 0	Panel Ben
	Pieces per Sheet:	Min Bend Length: 0	Max Bend Length: 0	Pem Nut
	· ,	Min Bend Angle: 10	Max Bend Angle: 93	Pem Stud
-Cutting P	Process	Min Flange: 0	Max Flange: 0	🗌 Grain
	Cutting Method: Laser	Min PEM Gap: 0	Min Dn PEM Gap: 0	Veld
Asset #:		Min Emboss Gap: 0	Min Dn Emboss: 0	🔽 Deburr
Config:		Min Louver Gap: 0	Min Dn Louver: 0	Paint
Standard	I Bend Process	Min Taper Gap: 0	Min Die Cutout: 0	
Proces	is #:	Bend Direction:: As Drawn		
Rad	ius: UOM:	Flip Be	ends	
Mode	LIR:			
				_

The Global Edge Engineering Assistant will

automatically add extended data to the DXF file with the information contained on the above screen. The software additionally includes a total of 48 CAD part parameters that can be added to the DXF file and routing steps that are outlined on the next screen. Refer to Page ## for a list of information that can be added as extended data to the DXF file. This column of check boxes allows you to select routing steps to be executed on the selected part. This includes the following manufacturing processes to execute:

- Blank
- Emboss
- Turret
- Laser
- Press Brake
- Panel Bender
- Pem Nut / Stud
- Grain
- Weld
- Deburr
- Paint

The software will generate routings including time calculations for accurate machine process times.

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1. After selecting **"OK"** option, and if **"Routing Check Box"** was checked, the following Part Routing screen is displayed with the generated manufacturing steps:

These columns calculate / display the cost estimate to fabricate a single part. The software can also calculate the cost for various levels of production.

Part R	outing						-	
Part Nun	nber: DEM-04-HOUSIN	NG SHEET ME	TAL HOUSING					Refresh
Route -								
Roi	ute#				Cett		\$142.50	Export
1100		Description. Orandand Fant Rooming		\$142.50	Close			
т	Type: Standard		Compone	int	\$43.63			
Loca. L	evel: None	None Optimization Quantity: 1 Process:						Config #
One	ration: 14 Occurtions Ex						0010.01	
Standar Proce	rd Bend Process			Radius:	UON	И:		
Standar Proce	rd Bend Process	Routing Description	Ture	Radius:	UON Estimated Cost	M:	Mach Ref	
Standar Proce Seq #	rd Bend Process	Routing Description	Туре	Radius:	UON Estimated Cost	M: Mach #	Mach Ref	
Standar Proce Seq #	Routing	Routing Description	Type Process Process	Radius:	UOM Estimated Cost 15.0000 0.7500	M: Mach # 1003	Mach Ref	03
Standar Proce Seq #	Routing LASER-CUT BEND TIG-WELD	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld	Type Process Process Process	Radius:	UON Estimated Cost 15.0000 0.7500 6.7500	M: Mach # 1003 1007 1010	Mach Ref LASER-100 PB-1007 WEI D-101	03
Standar Proce Seq #	Routing LASER-CUT BEND TIG-WELD DEFRURR	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Debutting Operation	Type Process Process Process Process	Radius:	Estimated Cost 15.0000 0.7500 6.7500 3.0971	Mach # 1003 1007 1010 1011	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-10	03
Standar Proce Seq #	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation	Type Process Process Process Process	Radius: 200.00 100.00 6.67 14.53 62.36	Estimated Cost 15.0000 0.7500 6.7500 3.0971 0.6414	Mach # 1003 1007 1010 1011 1018	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-100 PAINT-101	03 10 11 8
Standar Proce	Routing Routing LASERCUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation Hanging Operation	Type Process Process Process Process Process Process	Radius:	UON Estimated Cost 15.0000 0.7500 6.7500 3.0971 0.6414 0.5000	Mach # 1003 1007 1010 1011 1018 1015	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-101 PAINT-101 HANG-101	03 00 11 8 5
Standar Proce Seq # 1 2 3 4 5 5 7	Routing LASERCUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburing Operation Sand / Paint / Preparation Operation Hanging Operation Washing Operation	Type Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00	Estimated Cost 15.0000 0.7500 3.0971 0.6414 0.5000 0.2500	Mach # 1003 1007 1010 1011 1018 1015 1016	Mach Ref LASER-10 PB-1007 WELD-101 FINISH-10 PAINT-101 HANG-101 WASH-101	03 10 11 18 5 5 16
Standar Proce Seq # 1 2 3 4 5 5 5 5 5 7 3	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation Hanging Operation Washing Operation Painting Operation	Type Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 31.18	U01 Estimated Cost 15.0000 0.7500 6.7500 3.0971 0.6414 0.5000 0.2500 1.2828	Mach # 1003 1007 1010 1011 1018 1015 1016 1017	Mach Ref LASER-100 PB-1007 WELD-101 FAINISH-100 PAINT-101 HANG-101 WASH-101 PAINT-101	03 00 11 18 5 5 16 7
Standar Proce Seq # 2 3 4 5 5 5 7 3 9	Routing Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING CURING	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation Hanging Operation Washing Operation Painting Operation Curing Operation Curing Operation	Type Process Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 31.18 20.00	UO1 Estimated Cost 15.0000 0.7500 6.7500 3.0971 0.6414 0.5000 0.2500 1.2828 1.2500	Mach # 1003 1007 1010 1011 1018 1015 1016 1017 1019	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-100 PAINT-101 HANG-101 WASH-101 OVEN-101	03 10 11 18 5 16 7 9
Standar Proce Seq # 2 3 4 5 5 5 7 7 3 9 0	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING CURING ASSEMBLY	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburing Operation Sand / Paint / Preparation Operation Hanging Operation Washing Operation Painting Operation Painting Operation Assembly Operation	Type Process Process Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 31.18 20.00 20.00	UON Estimated Cost 15.0000 0.7500 6.7500 0.6414 0.5000 0.2500 1.2828 1.2500	Mach # 1003 1007 1010 1011 1018 1015 1016 1017 1019 1021	Mach Ref LASER-100 PB-1007 WELD-101 PAINT-101 HANG-101 PAINT-101 OVEN-101 ASSM-102	03 10 11 18 5 16 7 7 9 1
Standar Proce Seq # 2 3 4 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING CURING ASSEMBLY GENERAL-LABOR	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation Hanging Operation Washing Operation Painting Operation Curing Operation Assembly Operation General Labor Operation	Type Process Process Process Process Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 31.18 20.00 20.00 20.00	UO1 Estimated Cost 15,0000 0,7500 6,7500 0,2500 0,2500 1,2828 1,2500 2,5000 2,5000	Mach # 1003 1007 1010 1011 1018 1015 1016 1017 1019 1021 1025	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-100 PAINT-101 WASH-101 WASH-101 OVEN-101 ASSM-102 LABOR-10.	03 10 11 88 55 16 77 9 9 1 25
Standar Proce Seq # 1 2 3 4 4 5 5 5 7 7 3 9 10 11 12	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING CURING ASSEMBLY GENERAL-LABOR FINAL-INSPECT	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburning Operation Sand / Paint / Preparation Operation Hanging Operation Painting Operation Curing Operation Curing Operation Assembly Operation General Labor Operation Final Inspection Operation	Type Process Process Process Process Process Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 100.00 100.00 20.00 20.00 20.00	Estimated Cost 15.0000 0.7500 0.67500 0.6414 0.5000 0.2500 1.2828 1.2500 2.5000 2.5000 1.7500	Mach # 1003 1007 1010 1011 1018 1015 1016 1017 1019 1021 1025 1026	Mach Ref LASER-100 PB-1007 WELD-101 FINISH-100 PAINT-101 HANG-101 WASH-101 OVEN-101 OVEN-101 ASSM-102 LABOR-100 INSPECT-1	03 0 11 8 5 5 16 7 9 1 25 1026
Standar Proce Seq # 1 2 2 3 4 4 5 5 5 7 7 3 9 0 0 11 12 12	Routing LASER-CUT BEND TIG-WELD DEBURR SAND-PAINT-PREP HANGING WASHING PAINTING CURING ASSEMBLY GENERAL-LABOR FINAL-INSPECT PACKAGE	Routing Description Laser Cut Operation Press Brake Bending Operation TIG Weld Deburing Operation Sand / Paint / Preparation Operation Hanging Operation Vashing Operation Painting Operation Painting Operation Painting Operation Curing Operation Assembly Operation General Labor Operation Final Inspection Operation Package Operation	Type Process Process Process Process Process Process Process Process Process Process Process Process Process	Radius: Units / Hour 200.00 100.00 6.67 14.53 62.36 50.00 100.00 31.18 20.00 20.00 20.00 20.00 20.00	Estimated Cost 15.0000 0.7500 6.7500 0.6414 0.5000 1.2828 1.2500 2.5000 2.5000 1.7500 1.7500	Mach # 1003 1007 1010 1011 1018 1015 1016 1017 1019 1021 1025 1026 1027	Mach Ref LASER-101 PB-1007 WELD-101 PAINT-101 HANG-101 WASH-101 PAINT-101 OVEN-101 ASSM-102 LABOR-10 INSPECT- PACK-1027	03 10 11 18 5 5 16 7 7 9 1 1 25 1026 7

The *Global Edge Engineering Assistant* includes a configuration engine that runs in the background to generate routings based on the CAD part parameters and simple to define routing rules.

These columns (Units / Hour, Estimated Cost, Mach #) are automatically generated with the configuration engine which includes how many units can be produced per hour and the estimated cost per unit based on the machine tool selected for each specific process.

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1. After selecting "OK" option, the following screen form is displayed upon completion of Import CAD Files process:

Minport CAD Files		– 🗆 X
Batch #:: 5 Configuration Process Bend Process Parts	DXF IMAGE Zoom: Extents Rotation: 0	Work Queue
Queue Task # 1016 Import and Test PART #: BP-01-GAL-G60-06350-064		Find Customer
Item #: 1 of Total: 15 Imported: Next Previous		Opportunity
DXF Flles: 0 CAD Models: Failed: Other Formats:	· · · ·	Find Quote
Import Path: C:\GlobalEdge\demo\CAD-Files\BP-01-GAL-G60-06350-064.SLDPRT		New Quote
Operation: File Type: SolidWorks		
QUOTE ITEM		Find File(s)
Customer #: 1001 JABC MANUFACTURING		Create DXF(s)
Opportunity #		Preview DXF
Quote #:		Import
Part #: BP-01-GAL-G60-06350-064 Qty: 0.0000 EA	oo	Routing
Description: BEND PROCESS TEST PART 01 Line: Items:		Save
File Name:		Print
PART CATEGORY AND STYLE		Documents
Main Assembly:	Scaling Line Key	Documenta
Sub-Assembly:	Imported Scaled Up Bend	view-Log
Sheet Metal: SHT V SHEET METAL	Elat Width:	Clear
Parts:		Finish
DXF Import Rules: SolidWorks Format	Refresh	Close
Standard Bend Process:	Pending Items: Import Status:	
SHEET METAL PART PROPERTIES	Item Part Number Qty Status	PART UPDATE
FlatLength: 96 Material: G60 👻 GALVANIZED 🔽 Detect	Auto-Configu	ure IV Pending
Flat Width: 71.547908 Thickness: 16 GA. 👻 0.063500 🔽 Detect	Mfr Test	Under Revision
Extrusions: 0 Cutouts: 21 Tolerance: 0.005000 Total Bends: 11	Prompt Data	In-Active
Perimeter: 335.095817 Cutout Perim: 262.558 No. Up Bends: 6 Down Bends: 5	Auto Queue	Cbsolete
Rnd Holes: 20 Round Sizes: 2 Int. Up Bends: 0 Int. Dn Bends: 0	Vrite Log File	e 🔽 Temporary
Obrd Holes: 0 Obrnd Sizes: 0 Max Up Bend: 7 Max Dn Bend: 7	✓ Detailed Log	
Rect Holes: 1 Rect Sizes: 1 No. Hems: 1 Total Folds: 1	Debug	
Other Holes: 0 Other Sizes: 0 Max Bend Len: 80		
Cutout Dist: 450.789009 Part Dist: 83.773954 UOM: Inches 💌 Standard: Not Set		
DXF UOM: Not Set Configuration: QUOTING		

The *Global Edge Engineering Assistant* provides the ability to automatically analyze CAD part parameters. This includes a total of 48 CAD part parameters to drive:

- Automated Bend Program Generation
- Automated Routing Generation
- Manufacturability Testing
- Automated Sales Quote Generation

Refer to Page 13 for a listing of the information that is analyzed and generated with the CAD part importation process.

2. Select the "Print" option to generate Part DXF Import Report:

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CAD Part Parameter Report (Part 1 of 3)

The first portion of the *CAD Part Parameter Report* includes the following 48 CAD part parameters that are analyzed and recorded in an SQL database. These CAD part parameters provide the foundation for the automated generation of bend programs for press brakes, panel benders and other robotic folders. This is accomplished with the *Global Edge Engineering Assistant* software comparing the CAD part parameters with your available machine tool tooling such as part size, bend angles, hem counts, pem and louver gaps from bend lines, etc.:

	Part Number		Descripti	on	UOM	Туре	Cat. St	tyle Mtl.			
BP-06-S	5-304-4-075-125	BEND PROCES	SS TEST I	PART 06	EA	С	SHT -	304-4		5	
	Setup Cost:	104.2500		M	laterial:	304-4-S	TAINLESS	STEEL			Ш
	Process Cost:	18.7399)	Ship	Weight:		110.97				
	Component Cost:	525.1589		Ship Weigh	nt UOM:	lbs			<u>"Ш</u> ,	, 📖	<u>، لللم</u>
	Rollup Cost:	648.1488		Standar	d Cost:	6	48.1488				
					_						
			C	AD Part	Pa	ram	neters	S			
Par. #	Parameter Name	e Va	lue	UOM		Par. #	Para	ameter Name		Value	UOM
1	Sheet	Length: (000000	inches		25		Minimum Pen	n Gap:	1.200000	inches
2	Sheet	t Width: 0	000000	inches		26	Minim	um Down Pen	n Gap:	1.800000	inches
3	Blank	Length: (000000	inches		27	Min	iimum Embos	s Gap:	3.000000	inches
4	Blank	<mark>c Width:</mark> (0.000000	inches		28	Minimum	Down Embos	s Gap:	1.200000	inches
5	Material this	ckness: (0.078120	inches		29	Mi	inimum Louve	r Gap:	2.000000	inches
6	Pe	rimeter: 312	2.338773	inches		30	Minimun	n Down Louve	r Gap:	0.000000	inches
7	Flat	Length: 98	3.000000	inches		31	Min. Ta	aper Bend Lin	e Gap:	0.000000	inches
8	Flat	t Width: 58	8.169387	inches		32	N	/linimum Die C	utout:	0.000000	inches
9	Round Hole	Count: 20	.000000	•		33		Up Bend (Count:	6.000000	-
10	Round Sizes	Count:	2.000000	•		34	Intern	al Up Bends (Count:	0.000000	-
11	Obround Hole	Count: (000000	•		35		Maximum Up	Bend:	0.000000	inches
12	Obround Sizes	Count: 0	000000	-		36		Down Bend	Count:	5.000000	-
13	Rectangular Hole	Count:	.000000	-		37	Internal	Down Bends	Count:	0.000000	-
14	Rectangular Sizes	Count:	.000000	-		38	Ма	aximum Down	Bend:	0.000000	inches
15	Other Hole	Count: 0	000000	-		39		Fold	Count:	11.000000	-
16	Other Sizes	Count: 0	000000	-		40		Hem (Count:	1.000000	-
17	Number of C	utouts: 21	.000000	•		41		Extrude (Count:	0.000000	-
18	Cutout Pe	rimeter: 262	2.558000	inches		42		Bend R	adius:	0.125000	inches
19	Minimum Bend	Length: 35	5.000000	inches		43		Cutting M	ethod:	Open	
20	Maximum Bend	Length: 80	.000000	inches		44		Cutter Ref. Nu	mber:	•	-
21	Minimum Bend	Angle: 45	5.000000	degrees		45		Certified Ma	terial:	No	-
22	Maximum Bend	Angle: 90	000000	degrees		46		Ма	aterial:	304-4	-
23	Minimum Flange	Width:	.000000	inches		47		Cutout Dis	tance:	382.601221	inches
24	Maximum Flange	e Width: 12	2.000000	inches		48		Part Dis	tance:	78.084693	inches



CAD Part Parameter Report (Part 2 of 3)

The second portion of the *CAD Part Parameter Report* includes a list of the routing steps generated by the Routing Configurator built into the *Global Edge Engineering Assistant*. These routing steps are based on user defined routing rules that utilize the CAD part parameters to generate accurate process times based on part size, material and thickness including an accurate rollup of costs:

			Part Ro	utin	g			
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

CAD Part Parameter Report (Part 3 of 3)

The third portion of the **CAD Part Parameter Report** includes Manufacturability Test Results. These test results are the result of comparing CAD part parameters with user defined bend processes which provides the allowable limits of your tooling sets. The left-hand portion of the report includes the bend process limits while the right-hand portion includes the CAD part parameters:

	Manufacturability Test Results										
Process #:	4 Bnd Pro	oc., SS 3	804-4, 0.075, Rad	- 0.120	DEM-04	-HOUSING SHEET I	METAL HOUSIN	G			
Mtl. Code:	304-4 Pass				46	Material:	304-4	-			
Thickness:	0.075000	Pass	Linear UOM:	inches	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	Radius Tol:	0.010000	42	Bend Radius:	0.120000	inches			
K Factor 90:	0.445000	Ber	nd Allowance 90:	0.008000							
Gage Allowance 90:	0.003000		Tons Per Foot:	25.00000							
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			



TRANS #	SEQ. #	PROCESS	DESCRIPTION	WC #	ASSET #	SETUP	SETUP	STD. COST
912	1		Cutting Group					
913	2	SHEAR	Sheet Metal Shear Operation	1	1109	0.250000	\$13.75	\$55.0000
914	3	PUNCH	Turret Punch Operation	4	1007	0.250000	\$18.75	\$75.0000
915	4	EMBOSS	Embossing Operation	4	1007	0.250000	\$18.75	\$75.0000
916	5	LASER-CUT	Laser Cut Operation	3	1123	0.100000	\$14.00	\$140.0000
917	6		End of Operation Group					
918	7		Forming Group					
919	8	BEND	Press Brake Bending Operation	7	1011	0.500000	\$37.50	\$75.0000
920	9	PANELBEND	Panel Bender Bending Operation	7	1009	0.100000	\$12.00	\$120.0000
921	10		End of Operation Group					
922	11		Hardware / Pem Group					
923	12	INSTALL-PEM-NUTS	Install Pem Nuts	11	1110	0.350000	\$17.50	\$50.0000
924	13	INSTALL-PEM-STUDS	Install Pem Studs	11	1110	0.350000	\$17.50	\$50.0000
925	14		End of Operation Group					
926	15		Welding Group					
927	16	TIG-WELD	TIG Weld	9	1112	0.500000	\$22.50	\$45.0000
928	17	MIG-WELD	MIG Weld	9	1111	0.500000	\$22.50	\$45.0000
929	18		End of Operation Group					
930	20	DEBURR	Deburring Operation	8	1108	0.200000	\$9.00	\$45.0000
931	21	GRAIN	Graining Operation	8	1160	0.250000	\$11.25	\$45.0000
932	22	SAND-PAINT-PREP	Sand / Paint / Preparation Operation	10	1086	0.150000	\$6.00	\$40.0000
933	25	HANGING	Hanging Operation	10	1077	0.150000	\$3.75	\$25.0000
934	26	WASHING	Washing Operation	10	1082	0.150000	\$3.75	\$25.0000
935	27	PAINTING	Painting Operation	10	1084	0.150000	\$6.00	\$40.0000
936	28	CURING	Curing Operation	10	1089	0.250000	\$6.25	\$25.0000
937	31	ASSEMBLY	Assembly Operation	11	1094	0.250000	\$12.50	\$50.0000
938	32	RIVET	Riveting Operation	11	1119	0.250000	\$12.50	\$50.0000
939	33	GASKETING	Gasketing Operation	11	1092	0.250000	\$8.75	\$35.0000
940	34	GENERAL-LABOR	General Labor Operation	11	1125	0.250000	\$12.50	\$50.0000
941	37	FINAL-INSPECT	Final Inspection Operation	12	1099	0.250000	\$8.75	\$35.0000
942	38	PACKAGE	Package Operation	12	1099	0.250000	\$8.75	\$35.0000
943	39	SHIPPING	Shipping Operation	15	1104	0.150000	\$5.25	\$35.0000





Sheet Metal Part Entities / Measurements

Global Edge[®] **Integrated Manufacturing** automatically identifies and stores the parameters contained in a sheet metal part including the specific measurements of each part:

Sheet Metal Part Parameters / Measurements



Sheet Metal Part Measurements

ELE. #	Element Name	Length	Width	Diameter	BL Dist. 1 (Inner)	BL Dist. 2 (Outer)
1	Overall Flat:	80.000	62.394	0.000	0.000	0.000
2	Base-Flange:	80.000	39.727	0.000	0.000	0.000
3	Edge-Flange1:	80.000	1.727	0.000	0.000	0.000
4	Edge-Flange2:	80.000	1.727	0.000	0.000	0.000
5	Pem-Flange-Right:	80.000	3.727	0.000	0.000	0.000
6	Pem-Flange-Left:	80.000	3.727	0.000	0.000	0.000
7	Edge-Flange3:	80.000	1.856	0.000	0.000	0.000
8	Edge-Flange4:	80.000	1.727	0.000	0.000	0.000
9	Edge-Flange5:	80.000	2.294	0.000	0.000	0.000
10	Edge-Flange6:	80.000	1.910	0.000	0.000	0.000
11	Edge-Flange7:	80.000	2.979	0.000	0.000	0.000
12	Hem1:	80.000	0.993	0.000	0.000	0.000
13	Rect-Cutout-Top:	6.658	24.000	0.000	0.000	0.000
14	Down-Bend-Flange:	3.294	24.000	0.000	0.000	0.000
15	Middle-Cutout:	20.000	24.000	0.000	0.000	0.000
16	Rect-Cutout-Bottom:	6.136	24.000	0.000	0.000	0.000
17	Bottom-Cutout-Flange:	4.364	24.000	0.000	0.000	0.000
18	Upper-Left-Hole:	0.000	0.000	1.000	0.000	0.000
19	Upper-Mid-Left-Hole:	0.000	0.000	1.000	0.000	0.000
20	Upper-Right-Hole:	0.000	0.000	1.000	0.000	0.000
21	Upper-Mid-Right-Hole:	0.000	0.000	1.000	0.000	0.000
22	Lower-Left-Hole:	0.000	0.000	1.000	0.000	0.000
23	Lower-Mid-Left-Hole:	0.000	0.000	1.000	0.000	0.000
24	Lower-Right-Hole:	0.000	0.000	1.000	0.000	0.000
25	Lower-Mid-Right-Hole:	0.000	0.000	1.000	0.000	0.000
26	Pem-Hole-Up-LT-01:	0.000	0.000	0.375	1.411	2.316
27	Pem-Hole-Up-LT-02:	0.000	0.000	0.375	1.411	2.316
28	Pem-Hole-Up-LT-03:	0.000	0.000	0.375	1.411	2.316
29	Pem-Hole-Low-LT-01:	0.000	0.000	0.375	1.411	2.316
30	Pem-Hole-Low-LT-02:	0.000	0.000	0.375	1.411	2.316
31	Pem-Hole-Low-LT-03:	0.000	0.000	0.375	1.411	2.316
32	Pem-Hole-Up-RT-01:	0.000	0.000	0.375	1.411	2.316
33	Pem-Hole-Up-RT-02:	0.000	0.000	0.375	1.411	2.316
34	Pem-Hole-Up-RT-03:	0.000	0.000	0.375	1.411	2.316
35	Pem-Hole-Low-RT-01:	0.000	0.000	0.375	1.411	2.316
36	Pem-Hole-Low-RT-02:	0.000	0.000	0.375	1.411	2.316
37	Pem-Hole-Low-RT-03:	0.000	0.000	0.375	1.411	2.316



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3.3 – Automated Sales Quote / Routing Generation

Global Edge[®] **Engineering Assistant** includes Automated Sales Quote Generation by incorporating the CAD part importation capabilities into the quoting process. Within the previous section of the software, the user can look up a customer, generate a sales quote header and attach imported CAD parts to the sales quote. Once CAD part parameters are imported and stored in the SQL database, this section of the **Global Edge**[®] **Engineering Assistant** software provides the capabilities of a full functioning quoting system.

Workflow Steps

1. The first step is to open the *Global Edge*[®] *Engineering Assistant* software by clicking on the following desktop icon:



2. This will display the following splash screen and menu options:



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3. The first step is to select "CRM-Quoting > Prospect / Quote Management" option to display the following screen:

rospect-Maintenance				PROSP	PEC
				A	dd
ID #:	REF #:	PHONE:	EXT:	Ein	nd
COMPANY:		MOBILE:		<u>N</u> e	xt
CONTACT:		FAX:		Pro	evi
E-MAIL:		LET:			
ALT. CONTACT:		ATH:			510
ADDRESS 1:		REP:		Tid	kle
ADDRESS 2:		TER:		Upd	dat
CITY/STATE/ZIP:		CUS:		Con	nta
COUNTRY:		>>> T	ICKLER DATE:		
ACTION:				Edit-1	No
RODUCT INTEREST:				Oppor	rtu
LEAD SOURCE:				<u>S</u> ales-	Q
TYPE:				Mc	ore
POTENTIAL:		PRICE LIST:			lat
SALES STAGE:		INIT	IAL CONTACT:	133	eu
WEBSITE:		LA	AST CONTACT:	HX3 Work	Qu
NAICS CODE:		EMPL	OYEE COUNT:	QL	Л
SIC CODE:		ANNUAL RE	VENUE:		
PRODUCTS:					
NOTES:					
DATE ADDED:	113	DA	TE MODIFIED:	1.1.2	

4. Select "Work-Queue" option to display the following screen and menu options:

🐺 PROS	SPECT Q	UOTI	E: Global Edge	Windows	5 Dem	io Server												-	
Work-Q	lueue																		WORK-QUEUE
																			Add
PRIORI	тү		3-NORMAL				🔿 Logir	Selec	ed 🔘 All	FROM:	ALL				l				Update
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2-H	IGH		5-LOWEST				O Displ	ayed 🔾 All	Found O	All APPLY TO:	ALL PROS	PECTS							Clear
STATU	s		DRAFT			HOLD		P	ROGRAM:	Quote / Prospect	~	TAS	K DATE:	_	1.1.2		133		View
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		"Glo	balEdgeCAD_E	DG") OR (q OR priorit	ueue	_program =	GlobalEdge	C_DIOS / OR (CAD_SLD")) A HES "[DPOWH	ND quote_n ND quote_n	um > 0) AND customer_nu ty task_date_DESC_priority	Im > 0 AND	from_login = "ld	c" AND (p	priority =	5 OR prior	rity = 4 OF	R priority		Delete
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1020	3	3	2024-03-29	04:03 F	ROM:	ldc Q	iote	Normal	Create D)	XF File for PART #: DEM	DEM-05-P	ANEL	Execut	e	2024-04-	12 04:03	Pending		
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WO01																			
Add New W	lork Quei	ue Ta	sk																OVR .

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5. Select "Execute-Task" option and highlight workflow task to execute followed by "OK" option:

PROSPECT	T QUOT	TE: Global Edge	Windows	Demo Ser	/er												
Nork-Queue															St	art Pendin	g Ta
Select Work-	-Queue T	Task to Execute	, then Press	[OK]:												<u>N</u> o	
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1-HIGHES	ST 🖂	4-LOW				O Login	◯ Selected ◯	All TC	:								
2-HIGH		5-LOWEST					d 🔿 All-Found		ALL PROSP	ECTS							
STATUS		DRAFT		HOL	c		PROGRAM	Quote / Prospect	~	TASK DATE:	13	a]	推美的				
		PENDING	5	FAIL	ED		MODE	Prospect		REQUIRED DATE:	1.3	3	11.32				
		OPEN			SED		TASK TYPE	~		PRIMARY SORT:	Date	Descend	ling 🗸				
		WIP			CELLED		REQ ACTION	~		SECONDARY SORT:	Priority	Descend	ling 🗸				
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BATCH QUER 'ASK # BA 1017 1016 1018 1020 1019	#: SEL "Gk = 3 ATCH # 3 3 3 3 3 3	LECT * FROM ww obalEdgeCAD_E 3 OR priority = 2 DATE 2024-03-29 2024-03-29 2024-03-29 2024-03-29	ork_queue M DG") OR (qu CR priority 04:03 FR 04:03 FR 04:03 FR 04:03 FR 04:03 FR	/HERE (que eue_progr = 1) AND (20M-TO 20M: Idc 20M: Idc 20M: Idc 20M: Idc 20M: Idc	TYPE Quote Quote Quote Quote Quote Quote	am = "ldc_pr balEdgeCAD is MATCHES	ros") OR (((queue, SLD')) AND quoto "[DPOWH]" ORDE RIORITY NOTE Normal Create Normal Create Normal Create	program = "GlobalEdgeDoc _num > 0) AND customer_ ! BY task_date DESC, priori DXF File for PART #: DEM- DXF File for PART #: DEM-) OR (queue_p um > 0 AND fr y DESC APPLIES TO DEM-02-LOA DEM-01-APF DEM-03-BOT DEM-05-PAN DEM-04-HOI	BATCH DATE: rogram = "GlobalEdgeC om_Jogin = "Idc" AND (D ACTIA AD-CTR-BOX Execu RON Execu TTOM-DLH Execu VEL Execu USING Execu	01/01/ AD_INV') OR (qu priority = 5 OR p 0N REQ. DA te 20244 te 20244 te 20244 te 20244	1980 12:00:01 eue_program riority = 4 OR TE 14-12 04:03 14-12 04:03 14-12 04:03 14-12 04:03	STATUS Pending Pending Pending Pending Pending	•			
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6. Select "Yes" option when prompted to "Start Pending Task?", which will display the following screen form and menu options:

juote-Head Juote Head	ler der Info	rmation													
CL	JST #:		1001	REF	#:				ABC N	MANUFACTURI	NG				<u>I</u> tems
QUO	DTE #:		1001	QUOTE REF	#:			REVIS	ION #:		STATUS:	Entered	~		
	NOTE:	Fabricat	ted Shee	t Metal Parts	5			_			ENG. APPROVAL:	No	\sim		Notes
LOCATI	ION #:	1	CORF	. HEADQUA	RTERS	/MAN	UFACT	URING			QUOTE DATE:	03/29/202	24 본분의		Ship
CONTA	ACT #:	1	Robe	rt Smith							VALID THRU:	04/28/202	24 1133		··· Print
OPPORTUN	ITY #:	1	Light	Fixture Shee	t Meta	al Parts	;				APPROVED:		11.3.21		
PROJE	ECT #:		_								SUBMITTED:		11.3.21		Letter
	JOB #:														<u>e</u> Xcel
QUOT	TE BY:	RDS					ĺ		PURGE:	No 🗸	PURGE DATE:		14.5.21		Documen
SALES	REP:	RDS	Robert	D. Smith				c	LOSE %:	0.0	GEN PART:	No	~		
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Juote Item	s	DADT		D			πv	LINT	-	UNIT ODICE	EXTENDED	CEC STAT	115		
1	DEM-0	1-APRON				50	.0000	EA		\$173.6969	\$8684.85	Pending			
2	DEM-0	2-LOAD-	TR-BOX			25	.0000	EA		\$198.0316	\$4950.79	Pending			
3	DEM-0	3-BOTTO	M-DLH			35	.0000	EA		\$168.2720	\$5889.52	Pending			
4	DEM-0	4-HOUSI	١G			10	.0000	EA		\$210.9056	\$2109.06	Pending			
5	DEM-0	5-PANEL				40	.0000	EA		\$165.5053	\$6620.21	Pending			
							_								
PR08														-	

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7. Select "Items > Update" option and highlight Part Number "DEM-01-APRON":

CUST #:							Curreer
	1001	REF #:	ABC MANU	FACTURIN	IG		F8-View
QUOTE #:	1001 QUOTE	REF #:	REVISION #:		STATUS:	Entered \lor	
NOTE:	Fabricated Sheet Metal P	Parts			ENG. APPROVAL:	No ~	
LOCATION #:	1 CORP. HEADQ	UARTERS / MANUFAC	TURING		QUOTE DATE:	03/29/2024 분분위	
CONTACT #:	1 Robert Smith				VALID THRU:	04/28/2024 분분위	
OPPORTUNITY #:	1 Light Fixture S	Sheet Metal Parts			APPROVED:	推美消	
PROJECT #:					SUBMITTED:	1.1.2	
JOB #:							
QUOTE BY:	RDS		PURGE: N	lo \sim	PURGE DATE:	注美 3	
SALES REP:	RDS Robert D. Smith	1	CLOSE %:	0.0	GEN PART:	No \checkmark	
SHIP WEIGHT:	439.5 lbs		SHIP DAYS:	10	OPEN TASKS:	4	
SHIP VIA:	UPS UNITED PARCE	L SER.	FOB LOCATION: S	hipping Po	int		
PAY TERMS:	N30 NET 30 DAYS		_		NET CHARGE:	\$28254.43	
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uote Items							
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LINE 1 DEM-0 2 DEM-0	1-APRON)2-LOAD-CTR-BOX	25.0000	EA \$	198.0316	\$4950.79	Pending	
LINE	D1-APRON D2-LOAD-CTR-BOX D3-BOTTOM-DLH	25.0000	EA \$	198.0316 168.2720	\$4950.79 \$5889.52 \$2109.06	Pending	
LINE	D1-APRON D2-LOAD-CTR-BOX D3-BOTTOM-DLH D4-HOUSING D5-PANEL	25.0000 25.0000 35.0000 10.0000 40.0000	EA \$ EA \$ EA \$ EA \$	198.0316 168.2720 210.9056 165.5053	\$4950.79 \$5889.52 \$2109.06 \$6620.21	Pending Pending Pending	
LINE 1 DEM-(2 DEM-(3 DEM-(4 DEM-(5 DEM-(D1-APRON D2-LOAD-CTR-BOX D3-BOTTOM-DLH D4-HOUSING D5-PANEL	25.0000 35.0000 10.0000 40.0000	EA \$ EA \$ EA \$ EA \$ EA \$	198.0316 168.2720 210.9056 165.5053	\$4950.79 \$5889.52 \$2109.06 \$6620.21	Pending Pending Pending	
LINE 1 DEM-0 2 DEM-0 3 DEM-0 4 DEM-0 5 DEM-0	D1-APRON D2-LOAD-CTR-BOX D3-BOTTOM-DLH D4-HOUSING D5-PANEL	25.0000 35.0000 10.0000 40.0000	EA \$ EA \$ EA \$ EA \$	198.0316 168.2720 210.9056 165.5053	\$4950.79 \$5889.52 \$2109.06 \$6620.21	Pending Pending Pending	
LINE 1 DEM-0 2 DEM-0 3 DEM-0 4 DEM-0	DI-APRON D2-LOAD-CTR-BOX D3-BOTTOM-DLH D4-HOUSING D5-PANEL	25.0000 35.0000 10.0000 40.0000	EA \$ EA \$ EA \$ EA \$	198.0316 168.2720 210.9056 165.5053	\$4950.79 \$5889.52 \$2109.06 \$6620.21	Pending Pending Pending	

8. Select "OK" option to display the following screen form and menu options:

uote-Item Quantity	-Pricing Bil	-of-Materials Ne	stings I	mage		QUOTE-ITE
						<u>N</u> ext
CUST #:	1001	ABC MANUFACTUR	UNG			Previo
QUOTE #:	1001	ITEM #:	1	OPE	N TASK #:	
PART #:	DEM-01-APRO	M		PROJE	CT PHASE:	proD-Qt
APRON				LIST PRICE:	\$0.00	Import-D
				STANDARD COST:	\$190.1969	Configur
				QUOTE COST:	\$247.2560	Fabricatio
				ROLL-UP COST:	\$190.1969	0
				MFR. SET-UP COST:	\$144.0000	Summar
				ONE TIME CHARGE:	\$0.0000	Notes
PRICE METHOD:	Manual	FACTOR:	1.2	ON HAND:	0.0000	Work-Que
PRICE LIST #:	1 STAN	IDARD PRICE LIST			TAXABLE?: No <>	Documen
0005	QUAN	ПТҮ U	MOM	UNIT PRICE	EXTENDED	sTatus
ORDE	G	SULUUUU EA	~	\$173.6969	\$8684.85	
CONFLC STATUS	DI	WEIGHT: he	%	0.00	4.5	QUIT
Pending V	OVEF	VUNDER: 0.0	1	0.0 % CERTIFIE	D MATERIAL?: No V	
PR 10						

9. Select "Configure" option to display the following prompt (Configure Part?) which will execute the Routing Configurator to generate routing steps for the selected part and automatically rollup the time and material costs based on the imported CAD part parameters:



10. As the Configurator executes, the following prompts are made available:



11. When prompted for "Hardware:", select one or more of the available options ("PEM-NUT" and "PEM-STUD" selected)



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12. When prompted for "Part_Status:", select one of the available options ("New" selected)
 13. When prompted for "Program_Part:", select one of the available options ("Simple Part" selected)
 14. When prompted for "Setup_Master_File?", select one of the available options ("No" selected)
 15. When prompted for "Shear_Punch:", select one of the available options ("Shearing" selected)
 16. When prompted for "Pre-Form:", select one of the available options ("Shake-Out" selected)
 17. When prompted for "Pem_Options:", select one of the available options ("Index Out" selected)
 18. When prompted for "Form_Options:", select one of the available options ("Form-2" selected)
 19. When prompted for "Machine_Shop:", select one of the available options ("Bench Work" selected)
 20. When prompted for "Assembly:", select one of the available options ("General Assembly" selected)
 21. When prompted for "Inspection:", select one of the available options ("Inspect" selected)
 23. When prompted for "Finishing:", select one of the available options ("Powder Coat", "Batch Oven" selected)
 24. When prompted for "Shipping:", select one of the available options ("Powder Coat", "Batch Oven" selected)

25. The following screen form and menu options are displayed to enter the quantity of the required hardware:

PROSPECT	QUOTE: Global Edg	e Windows Demo Server				-	D X
Options-List							ОК
Enter Quantiti	ies For Optional Item	S:					Cancel
	OPTION LIST:	DEMO HARDWARE OPTIONS LIST					Cancel
	QTY	PART NUMBER	DESCRIPTION	LIST PRICE	UOM	EXTENDED	Insert
Include	3.0000	PEM-NUT	PEM NUT	\$0.00	EA	\$0.00	Append
Include	3.0000	PEM-STUD	PEM STUD	\$0.00	EA	\$0.00	
Entry		STANDOFF	STANDOFF	\$0.00	EA		Delete
Entry		RIVET	RIVET	\$0.00	EA		
Entry		SCREW	SCREW	\$0.00	EA		F6-Image
					TOTAL		
					TOTAL:	\$0.00	
OPTL							
Enter Quantity to	Include:						OVR



26. After selecting "OK" on the previous screen form the following screen form and menu options are displayed to enter the quantity of the additional components:

							ОК
Enter Quantitie	s For Optional Items	5:					
	OPTION LIST:	DEMO COMPONENTS OPTIONS LIST					Cancel
	QTY	PART NUMBER	DESCRIPTION	LIST PRICE	UOM	EXTENDED	Insert
ndude	1.0000	PACKAGING	PACKAGING	\$0.00	EA	\$0.00	Annend
intry		BOX-32X24X24	BOX, 32 X 24 X 24 (S-4453)	\$0.00	EA		Аррспа
intry		BAG28-4-599	U-LINE S-2366 20IN X 30IN FLAT BAG	\$0.00	EA		Delete
ndude	1.0000	BOX-30X24X20	U-LINE BOX S-4961	\$0.00	EA	\$0.00	
intry		SP-032-1	10-32 PEM NUTS	\$0.00	EA		F6-Image
intry		832316	8-32 SELF TAPPING SCREWS	\$0.00	EA		
intry		MATERIAL-MARKUP	MATERIAL MARKUP	\$0.00	EA		
_							
					TOTAL:	\$0.00	

27. After selecting "OK" on the previous screen form the following screen form and menu options are displayed to enter the quantity of other charge components:

							ОК
nter Quanti	ities For Optional Item	s:					
	OPTION LIST:	DEMO OTHER CHARGES OPTIONS LIST					Cano
	QTY	PART NUMBER	DESCRIPTION	LIST PRICE	UOM	EXTENDED	Inser
dude	1.0000	TAPE	TAPE CHARGE	\$0.00	EA	\$0.00	Apper
							Delet
	_						F6-Ima
	_						
					TOTAL:	\$0.00	



- IN PROSPECT QUOTE: Global Edge Windows Demo Server _ Х Routing-Selection ОК Select Operations to Include, then Press [OK]: ROUTING GROUP: Programming Group RUN QTY: 1.0000 Cancel STANDARD COST / HR. TOTAL PROC. COST SETUP PROCESS STANDARD SETUP COST TOTAL PROC. TIME F6-Toggle SEQ # PROCESS / ROUTING DESCRIPTION PROCESS TIME TIME ROC. COST F7-Details V-PART 1 MACHINE #: F8-All PROOF-NEW-PART Proof New Part Operation \$50.0000 MACHINE #: BO82 OVR
- 28. When prompted, select the process(es) in the "Programming Group":

The above screen form displays the available processes as the Configurator executes with each of the process groups that have been defined. This screen allows the user to select which processes applies to the imported part including the routing sequence.

29. When prompted, enter the "UNITS/HOUR" that can be done for the "BENCH-WORK" process:

outing Informat	ion						OK
Select Process T	lime in Hours, the	n Press [OK]]:				Cano
PART #:	DEM-01-APRON			APRON			
SEQ #:	34			ST	D. PROCESS COST RATE:	\$50.0000	
PROCESS:	BENCH-WORK			Bench Work	Operation		
UNITS/HOUR:	50.00000				COST METHOD QTY:	1.000000	
TIME/UNIT:	0.020000	HR(S)	1.200000	MINUTES	COST METHOD UOM:	hours	
VENDOR:	No 🗸						
LOCATION:	1	CORP. HE	ADQUARTERS / N	MANUFACTURI	NG		
DEPT #:	8	MANUFAC	TURING				
WC #:	11	ASSEMBLY	/ / LABOR				
MACHINE:	1053	Work Ben	ch Table				


30. When prompted, enter the "UNITS/HOUR" that can be done for the "MIG-WELD" process:

outing Informat	tion							OK
Select Process 1	Time in Hours, the	n Press [OK]:					Cance
PART #:	DEM-01-APRON			APRON				
SEQ #:	37			ST	D. PROCESS COST RATE:		\$45.0000	
PROCESS:	MIG-WELD			MIG Weld Op	peration			
UNITS/HOUR:	50.00000				COST METHOD QTY:		1.000000	
TIME/UNIT:	0.020000	HR(S)	1.200000	MINUTES	COST METHOD UOM:	hours		
VENDOR:	No 🗸							
LOCATION:	1	CORP. HE	ADQUARTERS / I	MANUFACTURI	NG			
DEPT #:	8	MANUFAC	TURING					
WC #:	9	WELDING						
MACHINE:	1009	MIG Weld	er					

31. When prompted, enter the "UNITS/HOUR" that can be done for the "GENERAL-ASSEMBLY" process:

Configurator-Pro	mpt								
Routing Informat	tion							0	K
Select Process	Time in Hours, the	n Press [O]:]	Can	cel
PART #:	DEM-01-APRON	I		APRON					
SEQ #:	45			ST	D. PROCESS COST RATE:	\$50.0000	(
PROCESS:	GENERAL-ASSE	MBLY		General Asse	embly Operation]		
UNITS/HOUR:	50.00000				COST METHOD QTY:	1.000000			
TIME/UNIT:	0.020000	HR(S)	1.200000	MINUTES	COST METHOD UOM:	hours			
VENDOR:	No 🗸								
LOCATION:	1	CORP. H	EADQUARTERS / I	MANUFACTURI	NG				
DEPT #:	8	MANUFA	CTURING						
WC #:	11	ASSEMBI	Y / LABOR						
MACHINE:	1025	General	Labor						
BO84									



32. When prompted, enter the "UNITS/HOUR" that can be done for the "INSPECT" process:

Politing Informat	ion							OK	
Select Process T	Time in Hours, the	n Press [OK	a:					Cano	
PART #:	DEM-01-APRON			APRON				Correc	-
SEQ #:	48			ST	D. PROCESS COST RATE:		\$35.0000		
PROCESS:	INSPECT			Inspection O	peration				
UNITS/HOUR:	100.0000				COST METHOD QTY:		1.000000		
TIME/UNIT:	0.010000	HR(S)	0.600000	MINUTES	COST METHOD UOM:	hours			
VENDOR:	No 🗸					,			
LOCATION:	1	CORP. H	EADQUARTERS / I	MANUFACTURI	NG				
DEPT #:	8	MANUFA	CTURING						
WC #:	12	INSPECT	ION / QC						
MACHINE:	1026	Inspectio	n Station						
BO84									

33. When prompted, select the process(es) in the "Finishing Group":

Select (Operations to Include, then Pr	ess [OK]:										ОК
	ROUTING GROUP:	Finishing Gro	up		RUN QTY:	1.0000						Cance
EQ # 9	PROCESS POWDER-COAT	PF Powder Coat	ROCESS / ROUTING I	DESCRIPTION	STANDARD COST / HR. \$40.0000	SETUP TIME 0.150000	SETUP COST \$6.00	PROCESS TIME 0.010496	STANDARD PROC. COST \$0.4198	TOTAL PROC. TIME 0.160496	TOTAL PROC. COST \$5.4198	F6-Togg
	MACHINE #:	1017	PAINT-1017	Paint Booth								F8-Al
10	BATCH-OVEN	Batch Oven O	Operation		\$25.0000	0.250000	\$6.25	0.050000	\$1.2500	0.300000	\$7.5000	
	MACHINE #:	1019	OVEN-1019	Cure Oven								
	MACHINE #:											
	MACHINE #:											
_	MACHINE #:											
_	MACHINE #:											
	MACHINE #:											
	MACHINE #:											



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34. After selecting **"OK"** on the previous screen form the following screen form to enter Units Per Hour for **"PACK-FOR-SHIPMENT"**:

country mormal	tion							OK
Select Process	Time in Hours, the	n Press [OK]:					Cano
PART #:	DEM-01-APRON	I		APRON				
SEQ #:	61			ST	D. PROCESS COST RATE:		\$35.0000	
PROCESS:	PACK-FOR-SHIP	MENT		Pack for Ship	ment			
UNITS/HOUR:	100.0000				COST METHOD QTY:		1.000000	
TIME/UNIT:	0.010000	HR(S)	0.600000	MINUTES	COST METHOD UOM:	hours		
VENDOR:	No 🗸							
LOCATION:	1	CORP. HE	ADQUARTERS / 1	MANUFACTURI	NG			
DEPT #:	8	MANUFAC	CTURING					
WC #:	14	PACKAGI	NG					
	1027	Packaging	Station					

35. After the Configurator is done executing, the following screen form and menu options are displayed:





36. Select "BOM" option to display the following screen form and menu options:

sembly I of Ma	-Components terials List					ОК	
When D	one Viewing BOM, Press [OK]:					Canc	el
LINE	PART NUMBER	DESCRIPTION	QTY. REQUIRED	UOM			
1	PEM-NUT	PEM NUT	3.0000	EA			
2	PEM-STUD	PEM STUD	3.0000	EA			
3	PACKAGING	PACKAGING	1.0000	EA			
4	BOX-30X24X20	U-LINE BOX S-4961	1.0000	EA			
5	TAPE	TAPE CHARGE	1.0000	EA			
_					-		
FOUND	5 COMPONENTS						
					-		

37. Select "Cancel" option to return to previous screen and select "Documents" option to display the following screen form and menu options:

ocument-Li	nk				DOCUMEN
DC #	NAME	DESCRIPTION	STATE	CHECKED OUT 1	
1001	DEM-01-APRON.sldprt	APRON	Checked-In		Unlink
1006	DEM-01-APRON.bmp	APRON	Checked-In		
1011	DEM-01-APRON.pdf	APRON	Checked-In		Launch
1016	DEM-01-APRON.dxf	APRON	Checked-In		e du
1274	QUOTING.bmp	QUOTE CONFIGURATION	Checked-In		Ealt
					View
					eXtrac
				v	Status
ound	5 Document(s)				QUIT
CA					



Logic Design Corporation ing Engineering & Manufacturing ..

38. Select "QUIT" option to return to previous screen and select "Routing" option to display the following screen form and menu options:

PROSPECT QUC	DTE: Global I	Edge V	/indows Demo Server							-		×
Routing											ROUTI	NG
											<u>V</u> ie	ew 🛛
PART #:	DEM-01-APF	RON		APRON							QL	л
ROUTE #:	1 OF	1	DESCRIPTION:	STANDARD PA	RT ROUTING		ZATION:	None	~			
TYPE:	Standard	~	ROUTE SOURCE:			OPTIMIZATI	ION QTY:	1	.000000			
LOCATION LEVEL:	None	\sim	WORK QUEUE REBUILD:	No	~	SET-U	JP COST:	\$1	10.7500			
LOCATION #:		1	CORP. HEADQUARTERS / MA	ANUFACTURING		PROCES	SS COST:		\$7.5223			
DEPT #:		8 1	ANUFACTURING			COMPONEN	VT COST:		\$4.3800			
W.C. #:						тот	AL COST:		\$11.90			
ASSET #:						ROLL-	UP DATE:	03/30/2024				
SEQ # ROUTING		ROUT	TING DESCRIPTION	TYPE	SET UP COST	PROC. COST	MACH.#	MACH.REF	TRANS ;			
1 PROGRAM-	NEW-PART	Progr	am New Part Operation	Process		\$0.0000			2072			
2 SHEAR	-	Shear	ring Operation (Rough Cut)	Process	\$13.75	\$1.1000	1001	SHEAR-1001	2073			
4 PEM		Dems	ert Operation	Process	\$17.00	\$0.6525	1005	PEM-1005	2074			
5 BENCH-WC	RK	Bend	Work Operation	Process	\$12.50	\$1.0000	1053	WORK-1053	2076			
6 MIG-WELD		MIG	Veld Operation	Process	\$15.75	\$0.9000	1009	WELD-1009	2077			
7 GENERAL-A	ASSEMBLY	Gene	ral Assembly Operation	Process	\$12.50	\$1.0000	1025	LABOR-1025	2078			
8 INSPECT		Inspe	ction Operation	Process	\$8.75	\$0.3500	1026	INSPECT	2079			
9 POWDER-C	OAT	Powd	er Coat Operation	Process	\$6.00	\$0.4198	1017	PAINT-1017	2080			
10 BATCH-OVE	EN	Batch	Oven Operation	Process	\$6.25	\$1.2500	1019	OVEN-1019	2081			
II PACK-FOR-	SHIPMENT	Раск	for Snipment	Process	\$8.75	\$0.3500	1027	PACK-1027	2082	w		
FOUND 11 SEQUEN	ICES											
BO 10												
View Routing Sequence	es											OVR .:

39. Select "QUIT" option to return to QUOTE-ITEM menu to display the following screen form and menu options:



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40. After the Configurator executes on a selected part, select the "QUIT" option, the software returns to the "Quote-Item" screen. Select "Update" option, fill in the remainder of the screen form with the proper information such as adding to the part description on the six descriptive lines located below the PART # field. Use the TAB key to move to the next data field. In the PRICE Method field, select "Cost-Plus" from the drop-down menu. In the FACTOR field, enter a factor as to what percentage the part should be marked up on the Sales Quote from the cost. Enter a factor of 1.5 to markup part. In the QUANTITY field, enter the quantity of parts to include on the Sales Quote:

Quantit	y+ricing Bil	-or-materials	ivestings	Image		ОК
Update Quote Item In	formation, then	Press [OK]:				Cancel
CUST #:	1001	ABC MANUE	ACTURING			F5-Qty. Dis
QUOTE #:	1001	ITE	M #:	1 OPEr	TASK #:	F6-Discoun
PART #:	DEM-01-APRO	N		PROJEC	T PHASE:	F7-Part #
APRON				LIST PRICE:		E9 Dhace
				STANDARD COST:	\$122.6523	ro-Phase
				QUOTE COST:	\$122.6523	F9-Unit
				ROLL-UP COST:	\$122.6523	F10-Quanti
				MFR. SET-UP COST:	\$110.7500	
				ONE TIME CHARGE:	\$35.0000	
PRICE METHOD:	Manual	✓ FAC	TOR:	ON HAND:	0.0000	
PRICE LIST #:					TAXABLE?: No ~	
	QUAN	ΤΙΤΥ	UOM	UNIT PRICE	EXTENDED	
ORDE	ER:	50.0000 EA	4	\$173.6969	\$8684.85	
	DI	SCOUNT:		%		
CONFIG STATUS		WEIGHT: b	S	0.09	4.5	
Complete 🗸	OVEF	JUNDER:	0.0 /	0.0 % CERTIFIED	MATERIAL?: No ~	
PR 10						

41. For multiple price quantities, select the "F10-Quantity" option of right-hand menu to display the following "Quantity-Pricing" screen tab and fill in the various Quantity Prices in the QUANTITY field you want to appear on the Sales Quote:

	n Quantity-Pricin	19 Bill-of-Materials	s Nestings Ima	age		ОК
						Cancel
PAR	T #: DEM-01-APRO	NC	APRON			Insert
		LIST PRICE:				Append
ROW	QUANTITY	UNIT COST	UNIT PRICE	EXT.COST	EXT.PRICE	Delete
1	1.0000	\$122.6523	\$208.4363	\$122.6523	\$208.44	
2	10.0000	\$22.9773	\$52.9163	\$229.7730	\$529.16	
3	50.0000	\$14.1173	\$39.0923	\$705.8650	\$1954.61	
4	100.0000	\$13.0098	\$37.3643	\$1300.9800	\$3736.43	
5	250.0000	\$12.3453	\$36.3275	\$3086.3250	\$9081.87	



42. Select "OK" option to display the following screen form and menu options:



43. Select "QUIT" option to return to QUOTE-ITEM menu to display the following screen form and menu options:

uote-Header QUOTE-TI- juote Header Information	PROSPECT QUO	TE: Global Edge Windows D	emo Server					-	
bubb Header Information	uote-Header								QUOTE-ITE
CUST #: 1001 REF #: ABC MANUFACTURING QUOTE #: 1000 QUOTE RF #: REVISION #: STATUS: Entered LOCATION #: 1 CORP. HEADQUARTERS / MANUFACTURING QUOTE DATE: 03/29/2024 M4 LOCATION #: 1 Robert Smith QUOTE DATE: 03/29/2024 M4 CONTACT #: 1 Robert Smith QUOTE DATE: 03/29/2024 M4 OPPORTUNITY #: 1 Light Fixture Sheet Metal Parts APROVED: 044 OUOTE R: ROS PURGE: No PURGE DATE: 044 DB# #:	uote Header Info	rmation							Add
CUST #: 1001 REF #: REVISION #: STATUS: Entered Widdle QUOTE #: 1001 QUOTE RF #: REVISION #: STATUS: Entered Widdle LOCATION #: 1 CORP. HEADQUARTERS / MANUFACTURING QUOTE DATE: 03/29/2024 NAI LOCATION #: 1 CORP. HEADQUARTERS / MANUFACTURING QUOTE DATE: 03/29/2024 NAI OPONTUNITY *: 1 Babert Smith QUOTE MID: NAI APPROVED: NAI PROJECT #:									Standard
QUOTE #: 1001 QUOTE REF #: REVISION #: STATUS: Entered J NOTE: #abricated Sheet Metal Parts BIG. APPROVAL: No Value	CUST #:	1001 REF	#:	ABC	MANUFACTURI	NG			Undate
NOTE: Patricated Sheet Metal Parts ENG. APPROVAL: No Uccatton #: 1 CORP. HEADQUARTERS / MANUFACTURING QUOTE DATE: 03/29/2024 Ib3/ Load CONTACT #: 1 Robert Smith VALID THRU: 04/28/2024 Ib3/ Delete QUITE PROJECT #: 1 Light Floture Sheet Metal Parts APPROVED: B43 Delete QUIT JUB #: 1 Light Floture Sheet Metal Parts APPROVED: B43 Delete QUIT JUB #: 1 Light Floture Sheet Metal Parts APPROVED: B43 Delete QUIT JUB #: 1 Light Floture Sheet Metal Parts 0.0 GEN PART: No VIII SUB #IT No VIII SUB #IT No VIIII MET GARCEL SER. FOB LOCATION: Shipping Point No RET GARCEL SER. FOB LOCATION: Shipping Point SUB #IT SO DAYS SUB #IT SO DAYS </td <td>QUOTE #:</td> <td>1001 QUOTE REF</td> <td>#:</td> <td>REVISION #</td> <td>:</td> <td>STATUS:</td> <td>Entered \sim</td> <td></td> <td></td>	QUOTE #:	1001 QUOTE REF	#:	REVISION #	:	STATUS:	Entered \sim		
LOCATION #: 1 CORP. HEADQUARTERS / MANUFACTURING QUOTE DATE: 03/29/2024 HAI CONTACT #: 1 Robert Smith VALID THRU: 04/28/2024 HAI OPPORTUNITY #: 1 Light Ficture Sheet Metal Parts APPROVED: HAI OUDTE DY: 1 Light Ficture Sheet Metal Parts APPROVED: HAI OUDTE DY: RDS PURGE: No PURGE DATE: HAI QUOTE DY: RDS PURGE: No PURGE DATE: HAI SALES REP: RDS ROB PURGE: 0.0 GEN PART: No SHIP PAY TERMS: NO PET 30 DAYS 10 OPEN TASKS: Image: Construction of the state o	NOTE:	Fabricated Sheet Metal Parts	I			ENG. APPROVAL:	No \checkmark		View
CONTACT #: 1 Robert Smith VALID THRU: 04/28/2024 HAI APPROVED: NAI PROJECT #: 1 Upht Fixture Sheet Metal Parts APPROVED: NAI SUBMITTED: NAI JOB #:	LOCATION #:	1 CORP. HEADQUAR	RTERS / MANUFACT	URING		QUOTE DATE:	03/29/2024 빌겋		Load
PPOORTUNITY #: 1 Upth Flokture Sheet Metal Parts APPROVED: B.8.4 PROJECT #: SUBMITTED: B.8.4 JOB #: SUBMITTED: B.8.4 QUITE BY: RDS Robert D. Smith CLOSE %: 0.0 GEN PART: No SALES REP: RDS Robert D. Smith CLOSE %: 10 OPEN TASKS: Metal SHIP VIEW UPS MITED PARCELSER. FOB LOCATION: Shipping Point States TAX: \$0.00 PAY TERMS: N.0 NET 30 DAYS NET CHARGE: \$28254.43 METHOD: Cost-Plus FACTOR: 1.2 FREIGHT: \$175.00 PAX TERMS: N.0 RATE: 0.0 % QUOTE TOTAL: \$28429.44 Usite Items PART NUMBER QUANTITY UNIT UNIT FRICE EXTENCED CFG STATUS 1 DEM-01-APRON 20.000 EA \$153.6053 \$2869.85 Complete Pending 2 DEM-01-APRON 20.000 EA \$158.720 \$2210.90.65 Pending 3 DEM-03-APRON 20.000 EA	CONTACT #:	1 Robert Smith				VALID THRU:	04/28/2024 빌왕		Delete
PROJECT #: SUBMITTED: BLA JOB #:	PPORTUNITY #:	1 Light Fixture Shee	t Metal Parts			APPROVED:	1.1.2		
J08 #:	PROJECT #:					SUBMITTED:	113		Tug
QUOTE BY: RDS Robert D. Smith PURGE: No PURGE DATE: RLB SALES REP: RDS Robert D. Smith CLOSE %: 0.0 GEN PART: No SHIP WEIGHT: 439.5 bs SHIP DAYS: 10 OPEN TASKS: SHIP VIA: UPS INITED PARCEL SER. FOB LOCATION: Shipping Point NET CHARGE: \$28254.43 METHOD: Cost-Plus FACTOR: 1.2 FREIGHT: \$175.00 PRICELIST: 1 STANDARD PRICE LIST SALES TAX: \$0.00 TAXABLE: No RATE: 0.0 % QUOTE TOTAL: \$28492.44 Uote Items EA \$13.69991 \$136.99991 \$589.315 Complete 11 DEM-01-APROR QUANTITY UNT UNT PRICE EXTENDED CFG STATUS 12 DEM-01-APROR \$2.0000 \$5.0000 \$5.0000 \$6.4 \$158.375 \$29495.7P Pending Pending 20 <td>JOB #:</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td> <td></td>	JOB #:								
SALES REP: RDB Robert D. Smith CLOSE %: 0.0 GEN PART: No SHIP WEIGHT: 439.5 bs SHIP DAYS: 10 OPEN TASKS: Image: Comparison of the comparison of t	QUOTE BY:	RDS	le l	PURG	E: No 🗸	PURGE DATE:	1.1.2		
SHIP WEIGHT: 439.5 bs SHIP VAL UP INTEP PARCELSER. FOB LOCATION: Shipping Point PAY TERMS: N30 HET 30 DAYS POB LOCATION: Shipping Point NET CHARGE: \$28255.43 METHOD: Cost-Plus FACTOR: 1.2 FREIGHT: \$175.00 PRICE LIST: I STANDARD PRICE LIST SALES TAX: \$0.00 TAXABLE: No RATE: 0.0 % QUOTE TOTAL: \$28429.43 uote tiens INF PART NUMBER QUANTITY UNIT PRICE EXTENDED CFG STATUS 1 DEM-03-APRON 25.0000 EA \$138.0316 \$9598.35 2 DEM-03-APRON 25.0000 EA \$166.2720 \$5589.52 Pending 4 DEM-03-APRON 40.0000 EA \$156.3730 \$5589.52 Pending 9 DEM-03-APRON 40.0000 EA \$156.3730 \$5589.52 Pending 9 DEM-05-PANEL 40.00000 EA \$15.5553 <td< td=""><td>SALES REP:</td><td>RDS Robert D. Smith</td><td></td><td>CLOSE 9</td><td>6: 0.0</td><td>GEN PART:</td><td>No v</td><td></td><td></td></td<>	SALES REP:	RDS Robert D. Smith		CLOSE 9	6: 0.0	GEN PART:	No v		
SHIP VIA: UPS INITED PARCEL SER. FOB LOCATION: Shipping Point PAY TERMS: N30 NET 30 DAYS NET OHARGE: \$28251.43 METHOD: Cost-Plus FACTOR: 1.2 FREIGHT: \$175.00 PRICE LIST: 1 TANDARD PRICE LIST SALES TAX: \$0.00 TAXABLE: No RATE: 0.0 % QUOTE TOTAL: 28429.44 uote Liens PART NUMBER QUANTITY UNIT UNIT PRICE EXTENDED CFG STATUS 1 DEM-01-APRON 25.0000 EA \$138.036 \$4965.77 Pending 2 DEM-03-APRON 25.0000 EA \$158.720 \$210.906 \$2409.79 4 DEM-03-APRON 25.0000 EA \$158.5303 \$210.906 Pending 5 DEM-03-APRON 25.0000 EA \$158.720 Pending Pending 4 DEM-03-APRON 25.0000 EA \$518.720 \$210.906 \$6620.21 Pending 5	SHIP WEIGHT:	439.5 bs		SHIP DAY	S: 10	OPEN TASKS:	4		
PAY TEMS: No. No. PAT TEMS: States TAX: States TAX: States TAX: States TAX: States TAX: States TAX:	SHIP VIA:	LIPS LINITED PARCEL SEL		FORLOCATION	l: Shinning Pr	vint			
METHOD: Cost-Plus FACTOR: 1.2 FREIGHT: \$175.00 PRICE LIST: 1 STANDARD PRICE LIST SALES TAX: \$0.00 TAXABLE: No RATE: 0.0 % QUOTE TOTAL: 32842944 Vote Items PART NUMBER QUANTTY UNIT UNIT PRICE EXTENDED CFG STATUS 1 DEM-01-APRON 50.0000 EA \$136.0316 \$88684.85 Complete 2 DEM-01-APRON 50.0000 EA \$136.0316 \$8684.85 CPG STATUS 3 DEM-01-APRON 50.0000 EA \$136.3316 \$8684.85 Pending 4 DEM-04-HOUSING 10.0000 EA \$165.5053 \$5620.21 Pending 5 DEM-05+PANEL 40.0000 EA \$165.5053 \$5620.21 Pending 6 S S S S S S S S 7 DEM-05+PANEL S S S S S S	PAY TERMS:	N30 NET 30 DAYS				NET CHARGE:	\$28254.43		
PRICE LIST: 1 TANDARD PRICE LIST SALES TAX: \$0.00 TAXABLE: No RATE: 0.0 % QUOTE TOTAL: \$25423.43 uote Items Image: Constraint of the state	METHOD:	Cost-Plus V FAC	TOR: 1.2			FREIGHT:	\$175.00		
TAXABLE: No RATE: 0.0 % QUOTE TOTAL: S28422,43 uote items III PART NUMBER QUANTITY UNIT UNIT PRICE EXTENDED CFG STATUS 1 DEH-01-APRON S0.0000 EA \$173.6999 S38442,43 2 DEH-01-APRON S0.0000 EA \$1598.0316 Grouplete 3 DEH-01-APRON S0.0000 EA \$1598.0316 \$4995.79 4 DEH-03-BOTTOM-DLH 35.0000 EA \$5109.0366 \$52109.06 5 DEH-03-PARLE 490.0000 EA \$5155.5053 \$65620.21 0 DEH-05-PAREL 490.0000 EA \$165.5053 \$6620.21 0 DEH-05-PAREL GROUP EA \$165.5053 \$6620.21 0 DEH-05-PAREL GROUP DEH-05-PAREL GROUP GROUP	PRICE LIST:	1 STANDARD PRICEL				SALES TAX:	\$0.00		
Substrate PART NUMBER QUANTITY UNIT UNIT PRICE EXTENDED CFG STATUS 1 DEM-01-APRON 50.000 EA \$173.6969 \$68684.85 Complete 2 DEM-024.0AD-CTR-ROX 25.0000 EA \$198.0316 \$4950.79 Pending 3 DEM-03-80TTOM-DUH 25.0000 EA \$210.905 \$220.060 Pending 4 DEM-03-PANEL 40.0000 EA \$155.5053 \$6620.21 Pending 5 DEM-05-PANEL 40.0000 EA \$155.5053 \$6620.21 Pending 8 Image: State Sta	TAXABLE:	No V RATE:	0.0 %	0.0 %		QUOTE TOTAL:	\$28429.43		
LINE PART NUMBER QUANTITY UNIT UNIT PRICE EXTENDED CFG STATUS 1 DEM-01-APRON 50.000 EA \$137.9693 S8684.85 Complete 2 DEM-01-APRON 25.0000 EA \$198.0316 \$4950.79 Pending 3 DEM-03-80TTOM-DLH 35.0000 EA \$210.9056 \$2210.905 \$2210.906 Pending 4 DEM-05-PANEL 40.0000 EA \$\$155.5053 \$\$65620.21 Pending 5 DEM-05-PANEL 40.0000 EA \$\$165.5053 \$\$6620.21 Pending 6 Image: Status)uote Items								
1 DEM-01-APRON 50.000 EA \$173.6969 \$3868.438 Complete 2 DEM-024-OAD-CTR-BOX 25.0000 EA \$198.0316 \$4950.79 Pending 3 DEM-034OTTCM-DLH 35.0000 EA \$186.2720 \$5589.52 Pending 4 DEM-04-HOUSING 10.0000 EA \$210.9056 \$2209.06 \$2109.06 5 DEM-05-PANEL 40.0000 EA \$165.5053 \$6620.21 0 DEM-05-PANEL 0 0 0	LINE	PART NUMBER	QUANTITY	UNIT	UNIT PRICE	EXTENDED	CFG STATUS		
2 DEM-02-LOAD-CTR-BOX 25:0000 EA \$198.0316 \$4950.79 Pending 3 DEM-03-ROTTCH-DUH 35:0000 EA \$198.2720 \$829.52 Pending 4 DEM-04-HOUSING 10:0000 EA \$210.9056 \$2210.9056 \$2209.06 Pending 5 DEM-05-PANEL 40:0000 EA \$155.5053 \$6620.21 Pending 6 S S S S S S S 0EM-05-PANEL 40.0000 EA \$155.5053 \$6620.21 Pending 808 S S S S S S S	1 DEM-0	1-APRON	50.0000	EA	\$173.6969	\$8684.85	Complete		
3 DBM-03-B011 (MHCH 35.0000 EA \$188.720 \$308.720 Pending 4 DBM-04-HOUSING 10.0000 EA \$210.906 \$210.906 \$40nd 5 DBM-05-PANEL 40.0000 EA \$155.5053 \$6620.21 Pending 6 S S S S S S S 7 S S S S S S 8 S S S S S S	2 DEM-0	2-LOAD-CTR-BOX	25.0000	EA	\$198.0316	\$4950.79	Pending		
R08	4 DEM-0	4-HOLISING	10 0000	EA	\$100.2720	\$2109.06	Pending		
	5 DEM-0	5-PANEL	40.0000	EA	\$165.5053	\$6620.21	Pending		
R08									
R08									
R08									
ROS									
· · · · · · · · · · · · · · · · · · ·	PR08							_	

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44. Select "QUIT" option to return to QUOTE menu to display the following screen form and menu options:



45. Select "Print" option to display the following screen form and menu options:





Sample Sales Quote

LDC	100 P.O Pro Pho ww	0 West Product 9. Box 5544 ductionville, WI one: 262-695-130 w.ldcglobal.com	Avenue 55555 0 Fax: 262	PRICE QUOT	ATION			
UBMITTED TO NBC Manufactu 0000 West Indu Milwaukee, WI Jnited States o	: uring Comp Istrial Way 55555 of America	bany		SHIP TO: ABC Manufacturing Company 5000 West Industrial Way Milwaukee, WI 55555 United States of America		CU CON E PI	IST ID: 1001 TACT: Robert Smith, -MAIL: <u>rsmith@abc-m</u> HONE: 414-555-1100 FAX: 414-555-1105	V.P. of Engineering anufacturing.com
QUOTE #	REV #	QUOTE DATE	VALID THRU	J SHIP VIA	DAYS2SHIP		PAY TERMS	SALES REP.
1001		04/03/2022	05/02/2022	BEST WAY	10		NET 30 DAYS	Robert Smith
QTY. QUOTED	UOM	PAF	RT #	DESCRIPTION		TAX	UNIT QUOTE	EXTENDED
50.000 25.000	EA	DEM-01-APRON	IR-BOX	APRON LOAD CENTER BOX		N	173.6969 198.0316	8,684.£ 4,950.7
35.000	EA	DEM-03-BOTTOM	I-DLH	BOTTOM DISPLAY LIGHT HOUSING		N	168.2720	5,889.8
10.000	EA	DEM-04-HOUSING	3	SHEET METAL HOUSING		N	210.9056	2,109.0
40.000	EA	DEM-05-PANEL		SHEET METAL PANEL		N	165.5053	6,620.2
* PAYMENT SCHE	EDULE **	1		-1			QUOTE SUB-TOTAL: SALES TAX:	28,254.4



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Configurator Prompts

The following 8 dimensions / parameters were defined in addition to the 34 dimension / parameters that are included with DXF File import process. The following user prompts and options are displayed when the Configurator executes:

PART #	QUOTE-STANDARD]			
Dim #	Dim. Parameter / Option	UOM	Minimum	Maximum	Input Method
35	Blank_Before_Cut?				User Prompt
	Yes				· · ·
	No				
36	Embossed_Part?				User Prompt
	Yes				
	No				
37	Incl_Panel_Bender?				User Prompt
	Yes				
	No				
38	Hardware:				User Prompt
	PEM-NUT				
	PEM-STUD				
	STANDOFF				
	RIVET				
	SCREW				
39	Weld_Part?				User Prompt
	Yes				
	No				
40	Deburr_Part?				User Prompt
	Yes				
	No				
41	Grain_Part?				User Prompt
	Yes				
	No				
42	Paint_Part?				User Prompt
	Yes				
	No				

Configurator Routings

The following are the available Routings / Manufacturing Processes that have been defined for fabricated sheet metal parts. As the Configurator executes, the software will select the appropriate process based on user selection and/or routing formulas:

PART #:	QUOTE-STANDARD						
SEQ #	PROCESS	DESCRIPTION	PROC. RATE	SETUP TIME	SETUP COST	MACH #	TRANS #
2	SHEAR	Sheet Metal Shear Operation	\$55.0000	0.250000	13.75	1109	463
3	PUNCH	Turret Punch Operation	\$75.0000	0.250000	18.75	1007	464
4	EMBOSS	Embossing Operation	\$75.0000	0.250000	18.75	1007	465
5	LASER-CUT	Laser Cut Operation	\$140.0000	0.100000	14.00	1123	466
8	BEND	Press Brake Bending Operation	\$75.0000	0.500000	37.50	1011	469
9	PANELBEND	Panel Bender Bending Operation	\$120.0000	0.100000	12.00	1009	470
12	INSTALL-PEM-NUTS	Install Pem Nuts	\$50.0000	0.350000	17.50	1110	473
13	INSTALL-PEM-STUDS	Install Pem Studs	\$50.0000	0.350000	17.50	1110	474
16	TIG-WELD	TIG Weld	\$45.0000	0.500000	22.50	1112	477
17	MIG-WELD	MIG Weld	\$45.0000	0.500000	22.50	1111	478
20	DEBURR	Deburring Operation	\$45.0000	0.200000	9.00	1108	481
21	GRAIN	Graining Operation	\$45.0000	0.250000	11.25	1160	482
22	SAND-PAINT-PREP	Sand - Paint Preparation Operation	\$40.0000	0.150000	6.00	1086	483
25	HANGING	Hanging Operation	\$25.0000	0.150000	3.75	1077	486
26	WASHING	Washing Operation	\$25.0000	0.150000	3.75	1082	487
27	PAINTING	Painting Operation	\$40.0000	0.150000	6.00	1084	488
28	CURING	Curing Operation	\$25.0000	0.250000	6.25	1089	489
31	ASSEMBLY	Assembly Operation	\$50.0000	0.250000	12.50	1094	492
32	RIVET	Riveting Operation	\$50.0000	0.250000	12.50	1119	493
33	GASKETING	Gasketing Operation	\$35.0000	0.250000	8.75	1092	494
34	GENERAL-LABOR	General Labor Operation	\$50.0000	0.250000	12.50	1125	495
37	FINAL-INSPECT	Final Inspection Operation	\$35.0000	0.250000	8.75	1099	498
38	PACKAGE	Package Operation	\$35.0000	0.250000	8.75	1099	499
39	SHIPPING	Shipping Operation	\$35.0000	0.150000	5.25	1104	500



Demo Section 4: Engineering Management

Global Edge[®] *Integrated Manufacturing* provides full-functioned engineering management capabilities including the ability to configure configurable products such as sheet metal cabinets. The sections that illustrate these capabilities include:

- **4.1 Bill of Materials Management / Product Configuration**
- 4.2 Document Management / CAD Interface

Stage 4: Engineering Management – Section Overview

The following is an overview of Stage 4 and what is illustrated within each of the steps.

- <u>4.1 Bill of Materials / Product Configuration</u>: The steps within this section illustrate how the *Global Edge* software provides automated generation of bill of materials through the product configuration process which includes:
 - **o** Advanced Bill of Materials Management
 - Automated Product Configuration / Routing Generation
- <u>4.2 Document Management / CAD Interface</u>: The steps within this section illustrate how the *Global Edge* software provides integrated document management and automated CAD model generation which include:
 - Document Launch
 - Automated CAD Model Generation / Model Explorer



4.1 – Bill of Materials Management / Product Configuration

These steps illustrate bill of materials management and product configuration.

Workflow Steps

1. Select the "Engineering" option on the Global Edge main menu:



2. Select the "BOM / Product Configuration" option on the Engineering Management menu:

Part-Master							PART
							Add
PART #:							<u>E</u> ind
REV #:							<u>N</u> ext
TYPE:	✓ MST:						Previ
PART UOM:							Gote
ORIGIN:							Upda
MFR. PART #:		MFR:					BOM
CATEGORY:		SERIAL:	~	STATUS:		~	WhereU
STYLE:		SHIP WEIGHT:			REBUILT:	~	reVisio
MATERIAL:							Mfr-Te
		PART ADDED:	11.5.3	TRANSFER:		\sim	docum
		MODIFIED:	1.1.2	COST QTY:			Carla
			STANDARE	PART COST:		_	Configu
			QUOTE	PART COST:		_	worKqu
PROCESS COST:	MFR. SET-UP CO	ST:	RO	DLL-UP COST:	h Xel	-	Optio
	ONE TIME CHAR	35:	K	DLL-OP DATE:	1224	_	Long
AD PART FILE NAME:						_	<u>R</u> ollU
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001							QUI

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3. Select the "*Find*" option and retrieve **PART #:** "*SLD-000-CABINET*" which will display the following part menu options:

rt-Master													PART
													Add
PART #:	SLD-000)-CABINET				UTILITY CABI	NET						••• Eind
REV #:													<u>N</u> ext
TYPE:	Product	¢	✓ MST	: Yes	~	·						_	Previ
PART UOM:	EA		0.00			Secial #1 2022						_	Goto
ALTAS OF:			0.00			Serial #: 2027						_	
ORIGIN:	Manufa	ctured			~	/						_	Upda
MFR. PART #:						MFR: LDC	Manufacturing	•					BOM
CATEGORY:	CAB	CABINET				SERIAL:	None	\sim	STATU	S: Active			WhereU
STYLE:						SHIP WEIGHT:		0.0	lbs	REBUILT:	No	. ~	<u>r</u> eVisio
MATERIAL:													Mfr-Te
						PART ADDED:	04/10/2023	1.13	TRANSFER:	Hold		\sim	documi
						MODIFIED:	04/10/2023	1.13	COST QTY:		1.0	000	Configur
							STAP		PART COST:		\$0.0	0000	worken
PROCESS COST:		\$0.	0000	MFR.	SET-UP	COST:	\$35.25	RC	DLL-UP COST:		\$0.0	0000	Morkqu
OMPONENT COST:		\$0,	0000	ONE .	ТІМЕ СН	ARGE:	\$0.00	R	OLL-UP DATE:	1.13		_	Option
PART FILE NAME:	SLD-000	-CABINET	.sldasm										Long
	_											_	RollU
													catego
													··· prinT
													Delet
	6												
													201
#1of1)													
)1													

4. Select the "BOM" option to display the first level of assembly components:

ART NUMBER: SLD- UTTL MAXIMUM BOM LEV NDENT SPACES PER LI 1 1 SLD-00 2 1 SLD-00 3 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	000-CABINET ITY CABINET ELS (1 to 99):	TYPE: Product LEAD TIME >: OVERRIDE EXPLOSION CONTROL (Y/N): DESCRIPTION AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - FULL	No ∨	DAYS TY REQD	UOM EA EA	MATES 0 0	TRANS# 30 31		Update View Level Qimensio
UTTL MAXIMUM BOM LEVI IDENT SPACES PER LI 1 SLD-00 2 1 SLD-00 4 1 SLD-01 4 1 SLD-01 6 1 6 1 8 1 SLD-01	ITY CABINET ELS (1 to 99): 1 EVEL (1 to 3): 3 # 66-CAB-AFILL-UL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-TOP 19-CAB-AFILL-TOP 10-CAB-AFILL-TOF 10-CAB-AFIL	LEAD TIME >: OVERRIDE EXPLOSION CONTROL (Y/N): DESCRIPTION AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - TOP AREA FILL - FULL	No V	DAYS TY REQD	UOM EA EA	MATES 0 0	TRANS# 30 31		<u>V</u> iew Level Routing
MAXIMUM BOM LEVI IDENT SPACES PER LI ITEM LEVEL 1 1 SLD-00 2 1 SLD-00 3 1 SLD-00 4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	ELS (1 to 99): 1 EVEL (1 to 3): 3 # 16-CAB-AFILL-UL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-TOP 19-CAB-AFILL-TOP	LEAD TIME >: OVERRIDE EXPLOSION CONTROL (Y/N): DESCRIPTION AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - TOP	No V	DAYS TY REQD	UOM EA EA	MATES 0 0	TRANS# 30 31		Level <u>R</u> outing <u>D</u> imensio
IDENT SPACES PER LI 1 1 SLD-00 2 1 SLD-00 3 1 SLD-00 4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	EVEL (1 to 3): 3 # 16-CAB-AFILL-UL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-TOP 19-CAB-AFILL-TOP	OVERRIDE EXPLOSION CONTROL (Y/N): DESCRIPTION AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - TOP AREA FILL - FULL	No ~	TY REQD	UOM EA EA	MATES 0 0	TRANS# 30 31		Level Routing Dimensio
IEVEL PART # 1 1 SLD-00 2 1 SLD-00 3 1 SLD-00 4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	# # 16-CAB-AFILL-UL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-FUL 10-CAB-AFILL-FUL 10-CAB-AFILL-LEFT	DESCRIPTION AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - FULL	Q	TY REQD	UOM EA EA	MATES 0 0	TRANS# 30 31		<u>R</u> outing Dimensio
1 1 SLD-00 2 1 SLD-00 3 1 SLD-00 4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 SLD-01	" 16-CAB-AFILL-UL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-HULL 10-CAB-AFILL-LEFT	AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - FULL	Q	IT KEQD	EA EA	0 0	30 31		Dimensio
1 SLD-00 2 1 SLD-00 3 1 SLD-00 4 1 SLD-01 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	17-CAB-AFILL-OL 17-CAB-AFILL-UR 18-CAB-AFILL-TOP 19-CAB-AFILL-FULL 10-CAB-AFILL-LEFT	AREA FILL - UPPER LEFT AREA FILL - UPPER RIGHT AREA FILL - TOP AREA FILL - FULL			EA	0	31		Dimensio
2 1 SLD-00 3 1 SLD-00 4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	08-CAB-AFILL-OR 99-CAB-AFILL-FULL 10-CAB-AFILL-LEFT	AREA FILL - OPPER RIGHT AREA FILL - TOP AREA FILL - FULL			EA	0	51		
4 1 SLD-00 5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	9-CAB-AFILL-FULL 10-CAB-AFILL-LEFT	AREA FILL - FULL			FO	0	32		Car Da
5 1 SLD-01 6 1 SLD-01 7 1 SLD-01 8 1 SLD-01	IO-CAB-AFILL-LEFT				FΔ	0	33		Gen-Ra
6 1 SLD-01 7 1 SLD-01 8 1 SLD-01		AREA FILL - LEFT			FA	0	34		NC-Progr
7 1 SLD-01 8 1 SLD-01	1-CAB-AFILL-RIGHT	AREA FILL - RIGHT			EA	ő	35		
8 1 SLD-01	2-CAB-AFILL-BOTTOM	AREA FILL - BOTTOM			EA	0	36		CAD-Exp
	13-CAB-AFILL-LL	AREA FILL - LOWER LEFT			EA	0	37		
9 1 SLD-01	4-CAB-AFILL-LR	AREA FILL - LOWER RIGHT			EA	0	38		reorde
10 1 SLD-00	1-CABINET-BODY	CABINET BODY		1.0000	DEA	0	39		dElete
11 1 SLD-04	2-PAINT-OPT	PAINT OPTIONS LIST			EA	0	40		
12 1 SLD-02	4-DRAWER	DRAWER ASSEMBLY			EA	0	41		QUIT
13 1 SLD-03	2-DOUBLE-DOOR	DOUBLE DOOR CONFIGURATION		1.0000	DEA	0	42	-	
]					

5. Select the "Routings" option to display the following screen form and menu options:



6. Select the "Update" option and select "ASSEMBLY" row to display the following screen form and menu options:

outing Informa	Run-Quantity ation	Vendor-Qty Inspectio	ns Alt-Machine-Tools	
PART #:	SLD-000-CABINET		UTILITY CABINET	<u>C</u> omponents
SEQ. #:	3	PROCESS TYPE:	Process CLASS: ASSEMBLY-INSTALLATION	Run-quantity
PROCESS:	ASSEMBLY		OPTIMIZATION:	Vendor-qty
ssembly Oper	ation		STD. PROCESS COST RATE: \$50,000	Dimensions
30			COST METHOD: Time	docuMents
			COST METHOD QTY: 1.000000	
			COST METHOD UOM: hours	<u>n</u> c-Program
			SET-UP TIME MODE: Calculated	<u>m</u> fr-Test
			SET-UP TIME: 0.250000	Notes
LEVEL:	Standard V		SET-UP TIME COST: \$12.50	History
SUB OF:				
VENDOR:	No 🗸		MARK UP METHOD: None	
LOCATION:	1	CORP. HEADQUARTERS /	MANUFACTURING MARK UP PRECENT:	4
DEPT #:	8	MANUFACTURING	MARK UP AMOUNT:	
WC #:	11	ASSEMBLY / LABOR	MFR TEST:	
MACHINE:	1021	Assembly Line	IEST STATUS:	
ALT. OK:	All \vee STA	IRT GAP:	INTERVAL: NEXT STEP:	
PRO	OC. TIME METHOD:	Formula \lor	CURVE PROMPT: No \lor	
PRO	C. COST METHOD:	Machine \vee	DEFAULT CURVE:	
	TIME BASE:	Labor Hours		_
			COMPLEXITY PROMPT: No. EACTOR:	
PROCE	SS COST FACTOR:	1.000000	COMPLEXITIEROMET. NO V TACTOR.	-
PROCE	SS COST FACTOR: TIME/UNIT:	1.000000 HR(S)	COMPLEXIT FROMPLY: HR(S)	-
PROCE	SS COST FACTOR: TIME/UNIT: UNITS/HOUR:	1.000000 HR(S)	COMPLEX TIME,UNIT: HR(S) COMPLEX UNITS/HOUR:	
PROCE STD. UNI	SS COST FACTOR: TIME/UNIT: UNITS/HOUR: IT PROCESS COST:	1.000000 HR(S) \$50.0000	COMPLEX TIME JUNIT: HR(S) COMPLEX UNITS/HOUR: COMPLEX UNITS/HOUR:	
PROCE	SS COST FACTOR: TIME/UNIT: UNITS/HOUR: IT PROCESS COST: TRANS #:	1.000000 HR(S) \$50.0000 167	COMPLEX TIME JUNIT: HR(S) COMPLEX TIME JUNIT: HR(S) COMPLEX UNITS/HOUR: COMPLEX UNIT COST: JOB COST METHOD: Actual DEBUG MODE: No	
PROCE STD. UNI	SS COST FACTOR: TIME/UNIT: UNITS/HOUR: IT PROCESS COST: TRANS #:	1.000000 HR(S) \$50.0000 167	COMPLEX TIME JUNIT: COMPLEX TIME JUNIT: COMPLEX UNITS/HOUR: COMPLEX UNITS/HOUR: JOB COST METHOD: Actual V DEBUG MODE: No V	

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Automated Product Configuration / BOM Update Workflow Diagram

Global Edge Integrated Manufacturing provides innovative product configuration capabilities for automated bill of materials and routing generation, including automated updating of ERP bill of materials to match CAD bill of materials.





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Template CAD Drawings

The following are the BOM and CAD part numbers for the Utility Cabinet:





SLD-000-CABINET

Configurator Prompts

The following are the 14 dimensions / parameters that were defined for the SolidWorks Utility Cabinet and will appear as the configurator executes for user input:

•	DIM. #1: Cabinet_Height	TYPE: Number	UOM: inch	hes Min:	32.000	lax: 40.000	Interval: 0.001
•	DIM. #2: Cabinet_Width	TYPE: Number	UOM: inch	hes Min:	32.000	lax: 60.000	Interval: 0.001
•	DIM. #3: Cabinet_Depth	TYPE: Number	UOM: inch	hes Min:	18.000	lax: 30.000	Interval: 0.001
•	DIM. #4: Face_Pattern Options • NONE • OPEN • VERTICAL SPLIT • HORIZONTAL SPLIT • VERTICAL SPLIT TOP • VERTICAL SPLIT BOTTOM	TYPE: Character					
•	DIM. #5: Post_Height	TYPE: Number	UOM: inch	hes Min:	6.000 N	lax: 18.000	Interval: 0.001
•	DIM. #6: Bottom_Post_Height	TYPE: Number	UOM: inch	hes Min:	6.000 N	lax: 18.000	Interval: 0.001
•	DIM. #7: Fill_Panel? Options • Yes • No	TYPE: Character					
•	DIM. #8: Removable_Back? Options • Yes • No	TYPE: Character					
•	DIM. #9: Include_Shelf? Options • Yes • No	TYPE: Character					
•	DIM. #10: Include_Drawer? Options • Yes • No	TYPE: Character					
•	DIM. #11: Material Options • Carbon • 304 Stainless • 316 Stainless	TYPE: Character					
•	DIM. #12: Material_Thickness Options • 14 Gauge (0.074000) • 18 Gauge (0.048000) • 20 Gauge (0.036000)	TYPE: Character					
•	DIM. #13: Paint_Finish Options • White • Red • Blue • Custom • None	TYPE: Character					
•	DIM. #14: Custom_Color Options • Prompt	TYPE: Character					



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7. Return to "Part-Master" screen and select "Configurator > Run" option followed by the "New > No" option to display the following screen form:

🖷 BILL OF MATER	RIALS: Global Edge Windows Demo	Server	-		×
Part-Number			_	ОК	
PART #: PART #: REV. #: TYPE: STATUS:	TEMP4.DC-000001 Product Active	UTILITY CABINET		Cance	el
CATEGORY: STYLE: MATERIAL: COPY					
Enter Item Descriptio	n:				OVR

The above screen form allows the operator to enter a specific description for the configuration that is about to be generated. The software will create a final Part Number based on the Part Numbering Rules that are defined.

8. When ready to execute the Configurator, select the "Yes" option to start the execution of the Configurator:

			<u>Y</u> es
PART #:	TEMP-LDC-000001	UTILITY CABINET	No
REV. #:			Edit
TYPE:	Product \checkmark		
STATUS:	Active \checkmark		
		Serial #: 2027	
CATEGORY:			
STYLE:			
MATERIAL:			



9. Enter "Cabinet_Height", "Cabinet_Width", and "Cabinet_Depth" when prompted:



10. Select "Face_Pattern" when prompted:

onfigurator-Parameter-Input									ОК
elect Option for Face_Pattern:									
MASTER CONFIGURATION P	ART #: TEMP-LDC-000001			UTILITY CA	BINET				Cancel
SUB-COMPONENT P	ART #:								F6-Image
RAM #: 4 PARAM	IETER: Face_Pattern			UOM:	inches				
ENTER PARAMETER NUMBER	VALUE:	INTERVAL:	0.001000	MIN:	18.000	MAX:	30.000		
ENTER FEET/I	ICHES: 0		MIN. FEET/IN:			MAX. FEET/IN:			
ENTER PARAMETER TEXT	VALUE:								
ENTER COMPONENT QUA	NTITY:	QTY. UOM:							
	# Parameter	Option	Para	ameter Option	Description				
	1 2 3 4 5		NONE OPEN VERTICAL SPLIT HORIZONTAL SP VERTICAL SPLIT	LIT TOP					
ram. # Parameter	Parameter Value		UO	М					
1 Cabinet_Height	36.000000		ind	nes					
3 Cabinet_Depth	26.000000		ind	ies					
4 Face_Pattern								Ŧ	

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11. Enter a "Post_Height" a when prompted:



- 12. When prompted for "Fill_Panel?", answer "No".
- 13. When prompted for "Removable_Back?", answer "No".
- 14. When prompted for "Include_Shelf?", answer "No".
- 15. When prompted for "Include_Drawer?", answer "No".
- 16. When prompted for a "Material" select from one of the available options.
- 17. When prompted for a "Material_Thickness" select from one of the available options.



18. When prompted for a "Paint_Finish" select from one of the available options:



19. When the Configurator completes execution, the following screen form is displayed:





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20. Select the "BOM" option to display the following:

🖷 BILL OF	MATERIALS: Global Edge Wind	ows Demo Server		-		×
BILL OF Assembly- Bill of Mate When Do LINE 1 2 3	MATERIALS: Global Edge Wind Components erials List pART NUMBER SLD-001-BODY-364826-0001 SLD-015-PAINT-8LUE-0001 SLD-032-DBL-DR-4623-0001	DESCRIPTION CABINET BODY POWDER PAINT, BLUE DOUBLE DOOR CONFIGURATION	QTY. REQUIRED UOM		Cano	
						OVR .::

21. Select the "Documents" option to display the following:

🖷 BILL OF	MATERIALS: Global Edge Windows Demo S	erver		-	- 0	\times
Document-	Link				DOCUME	л П
DOC #	NAME	DESCRIPTION	STATE	CHECKED OUT 1		:t
108	2 SLD-000-CABINET.bmp	UTILITY CABINET	Checked-In		Unlink	
116	0 SLD-000-CABINET.pdf 0 SLD-000-CAB-CRS-364826-0002.sldasm	UTILITY CABINET	Checked-In Checked-In		Laund	1
178	1 SLD-000-CAB-CRS-364826-0002.slddrw	UTILITY CABINET	Checked-In		Edit	
					View	
					eXtrac	t
4				Ψ	Status	;
Found	4 Document(s)			P		
DOCA						
dd New Docur	ment				C	OVR

22. Select the "Routings" option to display the following:

				-							view
PART #:	SLD-000-C	AB-CRS-	364826-0002	UTILITY CABIN	ET			_			<u>Q</u> UIT
ROUTE #:	1	DF: 1	DESCRIPTION	CABINET ASS	EMBLY & INSPECTION	OPTIM	ZATION:	None	\sim		
TYPE:	Standard	\sim	ROUTE SOURCE			OPTIMIZATI	ION QTY:		1.000000		
CATION LEVEL:	None	\sim	WORK QUEUE REBUILD	No	~	SET-U	JP COST:		\$12.5000		
LOCATION #:						PROCE	SS COST:		\$16.6670		
DEPT #:						COMPONE	IT COST:	\$	432.4088		
W.C. #:						тот	AL COST:		\$449.08		
ASSET #:						ROLL	JP DATE:	03/28/2024	ł.		
EQ # ROUTING		ROUT	TING DESCRIPTION	TYPE	SET UP COST	PROC. COST	MACH.#	MACH.REF	TRANS #		
1 ASSEMBLY		Assen	nbly Operation	Process	\$12.50	\$16.6670	1021	ASSM-1021	2071		
										-	

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4.2 – Document Management / CAD Interface

These steps illustrate document management and automated CAD model generation.

Workflow Steps

1. Return to "*Part-Master*" menu and select "*Find* > *Configurations*" option and find newly configured cabinet assembly:

		Add
PART #:	SLD-000-CAB-CRS-364826-0002 UTILITY CABINET	<u>F</u> ind
REV #:		Next
TYPE:	Product V MST: No V	Bravia
PART UOM:	EA	Elevic
LIST:	Serial #: 2027	Goto
ALIAS OF:	SLD-000-CABINET	Update
ORIGIN:	Manufactured V	BOM
MFR. PART #:	MFR: LDC Manufacturing	WhereIs
CATEGORY:	CAB CABINET SERIAL: None \lor STATUS: Active \lor	whereos
STYLE:	SHIP WEIGHT: 104.0348 bs REBUILT: Yes V	reVision
MATERIAL:	CRS COLD ROLLED STEEL	Mfr-Te:
	PART ADDED: 03/28/2024 推翻 TRANSFER:	documE
	MODIFIED: 03/28/2024 HA	Configura
	STANDARD PART COST: \$461.5758	
		workque
COMPONENT COST:	\$15.65/0 MFR. SET OF COST: \$12.50 ROLL-OF COST: \$401.5/58	Option
COMPONENT COST.	3152,1058 ONE 1312 CHARGE. 30.00 ROLLOF DATE. 05/20/2024 EXA	Long
D PART FILE NAME:		RollUp
		catego
		catego
		prinT
		Delete
		QUIT

2. Select "Document > Launch" option and select document to launch into CAD editor:

BILL OF N	/IATERIALS: Global Edge Windows Demo S	erver		-						
Document-L	ink									
Select Docu	Select Document to Launch, then Press [OK]:									
DOC #	NAME	DESCRIPTION	STATE	CHECKED OUT 1	Cancel					
1082	SLD-000-CABINET.bmp	UTILITY CABINET	Checked-In		F6-Details					
1160	SLD-000-CABINET.pdf	UTILITY CABINET	Checked-In							
1780	SLD-000-CAB-CRS-364826-0002.sldasm	UTILITY CABINET	Checked-In							
1781	SLD-000-CAB-CRS-364826-0002.slddrw	UTILITY CABINET	Checked-In							
				*						
Found	4 Document(s)									
DOCA										
					OVR					

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3. Select "Document > Launch" option and select document to launch into CAD editor. As the CAD files are checked out the document vault, they are displayed on the following screen:

A Glo	obal Edg	e Engineer	ing Assistant						-		×
File	View	Import	Configurator	Schedule	Help						
hecke	d Out File	s				Edit Location		Doc #	Checked Out At		Checke
LC)BAI	. EDC	<u>GE</u>								
						Data	base: global	edge Co	nnect/Username: ldc	/ ldc	

4. Once all the CAD files are checked out of the document vault, they are automatically launched into SolidWorks:





5. Select the "Tools > Global Edge > Model Explorer" option to display Global Edge Model Explorer screen:

🚳 Model E	xplorer														-		×
Model:	Open Docum	nents: 12	Part Docume	nt Parame	ter Com	ponents	CAD Prope	ertie	es Mates	Routing	Bi	tmap					
	0-CABINET D-001-CABINET-BOD	Y	Part #:	SLD-000-0	CABINET												
±	SLD-021-VERT-DIVI SLD-020-VERT-DIVI	DER-TOP DER-BOT	Revision:					[UTILITY CA	ABINET	_						
	SLD-004-CABINET-T	TOP	Part Type:	Product	~	Master:	Yes 🗸									Part Numb	
±	SLD-019-SPINE-COI	RNER-RT	Part UOM:	EA	~	Rebuilt:	No ~] [
	SLD-002-CABINET-E SLD-017-SPINE-CEI	BODY-WRAP	List Price:												Re		
	SLD-016-HORZ-DIV	IDER	Alias Of:						Serial #: 20	27					м	anufactura	abilitu
· · ·	SLD-015-FILL-PANE SLD-003-CABINET-E	L BOTTOM	Origin:	Manufactu	ured		~									dificitore	Dury
	Documents		Mfr Part #:						Mfr:	Global E	dge	Demo Server					
<		FT-HODY sida	Category:	CAB ~	CABINE	T			Serial:	None	~	Status:	Active	~			
🗹 Documer	nts Status K	ey .	Style:						Ship Wt:				EACH				
🗹 Dimensio	ns No	ot In Database vaiting Rebuild	CAD Material:									Linked To:				Close	
Expand	Be De	ebuilt ocuments	Material:		~			_									
Shrink Fo	Di Di	mensions	User Defined:								0) ate Added:	1/13/2017				
Drill Lev	rels: 1 🚔	Refresh	User Defined:								Da	te Modified:	1/13/2017				
Database:	OCABINET		User Defined:								Sta	indard Cost:					
i SLC	D-006-CAB-AFILL-UL		User Defined:									Quote Cost:					
	D-007-CAB-AFILL-UR D-008-CAB-AFILL-TO	p	Process Cost:			Mfr Se	et-Up Cost	_			F	Ioll-Up Cost:					
	D-009-CAB-AFILL-FUI	L	Comp Cost:								R	oll-Up Date:					
	D-010-CAB-AFILL-LEF D-011-CAB-AFILL-RIG	- I GHT	CAD Part #:														
	0-012-CAB-AFILL-BO	ттом	Active Document	SLD-000	CABINET	.sldasm											
	D-013-CAB-AFILL-LL D-014-CAB-AFILL-LR	~	Document Type:	ASSEMB	LΥ							In Da	atabase: Yes	:			
								-			_	Database:	globaledge	Use	ername:	ldc	

6. Select the "*Rebuild/Configure*" option to rebuild and configure the SolidWorks Cabinet Assembly to match the configuration run:





7. Open the Tree Widget in the left-hand panel and the "*Part*" tab to display the part information for the selected part that resides in the *Global Edge* database that matches the configured CAD Model:

Model Explorer			– 🗆 X
Model: Open Documents: 12	Part Documen	nt Parameter Components CAD Properties Mates Routing Bitmap	
SLD-000-CABINET	Part #:	SLD-000-CABINET	Add
SLD-021-VERT-DIVIDER-TOP	Revision:	UTILITY CABINET	Template
SLD-020-VERT-DIVIDER-BOT	Part Type:	Product V Master: Yes V	Part Number
SLD-019-SPINE-CORNER-RT	Part UOM:	EA v Rebuilt No v	Save
SLD-002-CABINET-BODY-WRAP	List Price:		Robuild/Configure
SLD-017-SPINE-CENTER SLD-016-HORZ-DIVIDER	Alias Of:	Serial #: 2027	neouroroomgure
SLD-015-FILL-PANEL	Origin:	Manufactured V	Manufacturability
SLD-003-CABINET-BOTTOM Documents	Mfr Part #:	Mfr: Global Edge Demo Server	Next
SI D-001-CARINET-RODY sldz	Category:	CAB V CABINET Serial: None V Status: Active V	Previous
Documents Status Key	Style:	Ship Wt: EACH	Refresh Tree
Dimensions Not In Database	CAD Material:	Linked To:	Church
Awaiting Rebuild	Material:	~	Close
Shrink Form Dimensions	User Defined:	Date Added: 11/13/2017	
Drill Levels: 1 🜩 Refresh	User Defined:	Date Modified: 11/13/2017	
Database:	User Defined:	Standard Cost	
SLD-000-CABINET	User Defined:	Quote Cost:	
SLD-007-CAB-AFILL-UR	Process Cost:	Mfr Set-Up Cost Roll-Up Cost	
BUST SLD-008-CAB-AFILL-TOP	Comp Cost:	Roll-Up Date:	
SLD-010-CAB-AFILL-LEFT	CAD Part #:		
SLD-012-CAB-AFILL-BOTTOM	Active Document:	SLD-000-CABINET.sldasm	
E- SLD-013-CAB-AFILL-LL E- SLD-014-CAB-AFILL-LR	Document Type:	ASSEMBLY In Database: Yes	Debug
		Database: globaledge Use	rname: ldc

8. Select a Document in the left-hand panel and select the "**Document**" tab to display the document information for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:

S Model Explorer		– 🗆 ×
Model: Open Documents: 12	Part Document Parameter Components CAD Properties Mates Routing Bitmap	
	Part #: SLD-000-CABINET UTILITY CABINET	Add
SLD-020-VERT-DIVIDER-BOT SLD-004-CABINET-TOP SLD-004-CABINET-TOP	Doc #: 1141 Name: SLD-000-CABINET.aldasm	Part Number
SLD-013-SPINE-CORNER-RT	Her #: 3047 Format: SLA V SolidWorks Assembly Hev: V	Save
SLD-002-CABINET-BODY-WRAP SLD-017-SPINE-CENTER	Serial #: 2027	Rebuild/Configure
SLD-016-HORZ-DIVIDER	Type: ASM V ASSEMBLY MODEL Editor: SLD V SolidWorks	Manufacturability
SLD-003-CABINET-BOTTOM	Style: MCH V MECHANICAL COMPONENT Document Status: Pending	✓ Next
SI D-001-CABINET-BODY sldr	Preview: No V Configurable: No V Configuration Complete:	Y Previous
Documents Status Key	Check-Out By: LDC V Larry D. Colbourn Check-Out Date: 01-03-17 12:00:00	Refresh Tree
✓ Dimensions ✓ Dimensions ✓ Awaiting Rebuild ✓ Robuilt	Check-Out Status: Checked-In	Close
Shrink Form Dimensions	Control Loc: 2 CHICAGO MANUFACTURING PLANT	
Drill Levels: 1 🚖 Refresh	Working: C:\demo\CAD-Files\SLD-000-CABINET\	
Database:	Release:	
SLD-000-CABINET	Archive:	
BLD-006-CAB-AFILL-UL	Template: Yes 🗸 Template Doc #:	
SLD-008-CAB-AFILL-TOP	Vaulted: Yes Vault #: 2 Client Vault	
SLD-009-CAB-AFILL-FULL	Archived: No V Archive #:	-
SLD-011-CAB-AFILL-RIGHT		
■ SLD-012-CAB-AFILL-BOTTOM	Active Document: SLD-000-CABINET.sldasm	
E- SLD-013-CAB-AFILL-LL E- SLD-014-CAB-AFILL-LR	Document Type: ASSEMBLY In Database: Yes	Debug
	Database: globaledge	Username: Idc

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9. Select a Dimension in the left-hand panel and select the "*Parameter*" tab to display the parameter information for the selected part that resides in the *Global Edge* database that matches the configured CAD Model:

Model Explorer		- 🗆 X
Model: Open Documents: 12	Part Document Parameter Components CAD Properties Mates Routing Bitmap	
- SLD-000-CABINET - SLD-001-CABINET-BODY - SLD-001-CABINET-BODY - SLD-001-VERT DIVIDED TOP	Part #: SLD-000-CABINET UTILITY CABINET	Add
B SLD-021-VER1-DIVIDER-TOP SLD-020-VERT-DIVIDER-BOT SLD-004-CABINET-TOP	Dim #: 1 Cabinet_Height of: 17 Display Width: 2	Femplate Part Number
SLD-019-SPINE-CORNER-RT SLD-018-SPINE-CORNER-LT	Dim Type: Numeric V Display Precision: 0	Save
SLD-002-CABINET-BODY-WRAP	UDM: Inches V Unit String: Inches Unit String: Inches Constraint: None V Description: No V Tolerance : 0.000000	Rebuild/Configure
SLD-016-HORZ-DIVIDER	Option List: No UOM Rel.: V Tolerance +: 0.000000	Manufacturability
SLD-003-CABINET-BOTTOM	Quote Display: No V Factor: 0	Next
SI D-001-CARINET-RODY sldz ×	Min Limit: Min Value: 32.00000 inches	Previous
Documents Status Key	Max Limit: Max Value: 32.000000 inches	Refresh Tree
Dimensions Awaiting Rebuild Expand Shrink Form Dimensions	Intervat: Dimension Value Method: Formula 0	Close
Drill Levels: 1 🜩 Refresh	Description: Parameter Type:	
	Config Param: Required Entry: Defau V	
SLD-006-CAB-AFILL-UL	CAD Attribute: Actual_Depth Active:	
B SLD-007-CAB-AFILL-UR B SLD-008-CAB-AFILL-TOP	Routing Seq.: Debug: V	
SLD-009-CAB-AFILL-FULL SLD-010-CAB-AFILL-LEFT SLD-011-CAB-AFILL-LEFT		
SLD-012-CAB-AFILL-BOTTOM	Active Document: SLD-000-CABINET.sldasm	
SLD-013-CAB-AFILL-LL	Document Type: ASSEMBLY In Database: Yes	Debug
	Database: globaledge Use	rname: ldc

10. Select "**Components**" tab to display the assembly components for the selected part that resides in the **Global Edge** database that matches the configured CAD Model:

dodel:	Open Documents: 12	Part D	Ocument Parameter	Components CAD Properties Mates Routing Bi	tmap	
	CABINET					Add
🖻 SLD-	001-CABINET-BODY		Part #: SLD-000-CABIN			
	LD-021-VERT-DIVIDER-TOP					Template
· · · · ·	LD-020-VERT-DIVIDER-BOT	Item #	Part #	Description	Quantity	Part Mumber
	D-019-SPINE-COBNER-BT		SLD-006-CAB-AFI	AREA FILL - UPPER LEFT		Fait Number
S	LD-018-SPINE-CORNER-LT		SLD-007-CAB-AFIL	AREA FILL - UPPER RIGHT		Save
🕀 S	LD-002-CABINET-BODY-WRAP		SLD-008-CAB-AFIL	AREA FILL - TOP		
	LD-017-SPINE-CENTER		SLD-009-CAB-AFIL	AREA FILL - FULL		Rebuild/Configure
	LD-016-HORZ-DIVIDER	□ <u>5</u>	SLD-010-CAB-AFIL	AREA FILL - LEFT		Manufacturability
± 5	LD-015-FILL-PANEL		SLD-011-CAB-AFILL	AREA FILL - RIGHT		
. C	ICD-003-CABINE I-BOTTOM	7	SLD-012-CAB-AFIL	AREA FILL - BOTTOM		
	SI D-001-CABINET-BODY side	8 🗌	SLD-013-CAB-AFIL	AREA FILL - LOWER LEFT		
٢	>	9	SLD-014-CAB-AFIL	AREA FILL - LOWER RIGHT		Previous
7 Documents	Status Key	10	SLD-001-CABINET-B	CABINET BODY	1.0000	Refresh Tree
Z Dimensions	Not In Database	11	SLD-042-PAINT-OPT	PAINT OPTIONS LIST		
Cunand	Awaiting Rebuild	12	SLD-024-DRAWER	DRAWER ASSEMBLY		Close
	Documents	13	SLD-032-DOUBLE-D	DOUBLE DOOR CONFIGURATION	1.0000	
Shrink Forr	n Dimensions					
Drill Leve	ls: 1 🖨 Refresh					
Database:						
SLD-000	CABINET					
i SLD-	006-CAB-AFILL-UL					
	007-CAB-AFILL-UR					
ter SLD-	008-CAB-AFILL-TOP					
	010-CAB-AFILL-LEFT	Configu	ration Template	O Bebuilt	Item Count: 13	
. SLD-	011-CAB-AFILL-RIGHT		O Template	OTTebuik		
E SLD-	012-CAB-AFILL-BOTTOM	Active Do	cument: SLD-000-CABIN	VET, sldasm		
🗄 SLD-	013-CAB-AFILL-LL					
🖶 SLD-	014-CAB-AFILL-LR	Docume	nt Type: ASSEMBLY		In Database: Yes	Debug

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11. Select "*Mates*" tab to display the mate attributes for the selected part that resides in the *Global Edge* database that matches the configured CAD Model:

C Model Explorer	– 🗆 ×
Model: Open Documents: 12 Part Document Parameter Components CAD Properties Mates Routing Bitmap	
	Add
SLD-001/CABINE FOUD F	Template
SLD-020-VERT-DIVIDER-BOT	
	Part Number
B- SLD-018-SPINE-CORNER-LT	Save
	Rebuild/Configure
⊕- SLD-016-HORZ-DIVIDER	Monufacturability
SLD-015-FILL-PANEL A SLD-013-CABINET-ROTTOM	Waturaburability
- Documents	Next
SID-001-CARINET-RODY sktz *	Previous
Documents Status Key	Refresh Tree
Dimensions Not In Database	Close
Expand Rebuilt	0.036
Shink Form	
Drill Levels: 1 🜩 Refresh	
Database:	
H SLDVUBCAB-AFLU-UL	
SLD-008-CAB-AFILL-TOP	
B- SLD-009-CAB-AFILL-FULL	
SLD-010-CAB-AFILL-LEFT	
B SLD-011-CAB-AFILL-RIGHT	_
G-SLD-012-CAB-AFILL-BOTTOM Active Document: SLD-000-CABINET.sldasm	
B-SLD-013-CAB-AFILL-LL	
ASSEMBLY In Database: Yes	Debug
Database: globaledge	Username: ldc

12. Select "*Routings*" tab to display the routings for the selected part that resides in the *Global Edge* database that matches the configured CAD Model:

S Model Explorer									-		×
Model: Open Documents: 12	Part D	ocument Param	neter Components CAD F	roperties Ma	ates Routing	Bitmap					
- SLD-000-CABINET - SLD-001-CABINET-BODY - sl D-021-VEBT-DIVIDEB-TOP		Part #: SLD-000-CABINET UTILITY CABINET									
SLD-020-VERT-DIVIDER-BOT SLD-004-CABINET-TOP SLD-019-SPINE-CORNER-RT	B	Route #: 0 OF: Description: CABINET ASSEMBLY Optimization: Uptimize						Part Number			
SLD-018-SPINE-CORNER-LT	Location	Level	\	0 Bebuild:		_ Z Setun I	Luny:			Save	
SLD-002-CABINE T-BODY-WRAP	Loca	ation #				Proc	Cost:		Be		igure
SLD-016-HORZ-DIVIDER		ent#:					Cost		Ιv	lanufactura	ability
SLD-003-CABINET-BOTTOM		w.c.#:				Total	Cost:			Nevt	
Cocuments SI D-001-CABINET-BODY sldz *	4	isset #:				Roll-Up [)ate:				3
Documents Status Key	, <u> </u>										ee
Dimensions Not In Database	SEQ #	SEQ # Sequence Description		Туре	SetUp C	Proc Cost	MACH #	Mfr Test		Close	
Expand Rebuilt	1		Engineering Operation	Process	0.00			Undefined			
Shrink Form Dimensions	3	ASSEMBLY	Assembly Operation	Process	0.00	0.0000	1094	Undefined			
Drill Levels: 1 🔶 Befresh	4	FINAL-INSP	Final Inspection	Process	0.00	2.1000	1099	Undefined			
Database:	5	PACKAGING	Packaging Operation	Process	0.00	2.4000	1100	Undefined			
SLD-000-CABINET	6	SHIPPING	Shipping Operation	Process	0.00	0.0000	1104	Undefined			
SLD-007-CAB-AFILL-UR											
SLD-008-CAB-AFILL-TOP								>			
SLD-009-CAB-AFILL-FULL SLD-010-CAB-AFILL-LEFT						Sequence C	ount: 6	-			
SLD-011-CAB-AFILL-RIGHT	B- SLD-011-CAB-AFILL-RIGHT										
SLD-013 CAB-AFILL-LL Document Type: ASSEMBLY In Database: Yes											
						Data	base: glob	aledge Us	ername:	ldc	

100

13. Select "*Bitmap*" tab to display BITMAP image for the selected part that resides in the *Global Edge* database that matches the configured CAD Model:

S Model Explorer	$ \Box$ \times
Model: Open Documents: 12 Part Document Parameter Components CAD Properties Mates Routing Bitmap	
B-SLD-000-CABINET A B-SLD-001-CABINET-BODY Part #:	Add Template
	Part Number
B-SLD-019-SPINE-CORNER-RT SolidWorks CAD Interface	Save
B SLD-002-ABINE I-BODT-WRAP	Rebuild/Configure
B SLD-016-HORZ-DIVIDER	Manufacturability
E- SLD-003-CABINE I-BUTTOM	Next
SI D-001-CARINFT-RODY side V	Previous
Documents Status Key	Refresh Tree
Dimensions Not In Database Expand Rebuilt Shrink Form Dimensions	Close
Drill Levels: 1 🖨 Refresh	
Database:	
SLD-006CAB-AFIL-UL Control Loc: Control Loc:	
SLD-008-CAB-AFILL-TOP Working:	
SLD-009-CAB-AFILL-FULL Format: Capture Image Capture Image	
SLD-012-CAB-AFILL-BOTTOM Active Document: SLD-000-CABINET.sldasm	
Image: Bit D-013-CAB-AFILL-LL Image: Document Type: Image: Bit D-014-CAB-AFILL-LR V Document Type: ASSEMBLY In Database: Yes	Debug
Database: globaledge Us	ername: ldc



14. Select "*Manufacturability*" option to display the Manufacturability Test screen:

🖳 Manufact	anufacturability Test										-		×
Part #:	SLD-000-CA	BINET		UTILITY CABINET				Test Typ	be:	~	Results:		
Part Type:	Assembly	~	Material:	~					I	Mtrl Status:			
Location #:	~				Row #	Parameter	Value	Minimum	Maximum	UOM	Measured	Status	٦
Dept #:	~												
W.C.#:	~												
Asset #:	~												
Sequence #:	_			~									
													_
						Clear					C	lose	



Demo Section 5: Integrated Manufacturing

Global Edge[®] *Integrated Manufacturing* includes functionality that automatically generates information to either drive an existing MES Manufacturing Execution System or provide complete capabilities manage your daily production which includes the following:

- **5.1 Automated Job Build / Scheduling**
- **5.2 Workstation Screen / Load Balancing / Schedule Export**
- **5.3 Production Dashboard**
- **5.4 Shop Floor Data Collection / IoT (Internet of Things)**
- **5.5 Automated Production ERP Upload**

Demo Section 5: Integrated Manufacturing Overview

The following is an overview of Section 5 and what is illustrated within each of the steps.

<u>5.1 – Automated Job Build / Scheduling</u>: The steps within this section illustrate how Global Edge can automatically generate complete job orders from orders that are downloaded from ERP. The automated tasks illustrated include:

• Automated Job Build / Scheduling

- <u>5.2 Workstation Screen / Load Balancing / Schedule Export</u>: The steps within this section illustrate how *Global Edge* can schedule and manage production including load balancing, and the exporting of the workstation schedule to a CSV file to be imported into a third-party scheduling system. The automated tasks illustrated include:
 - Automated Production Order Generation
 - Production Load Balancing
 - Production Schedule Export
- <u>5.3 Production Dashboard</u>: The steps within this section illustrate how *Global Edge* can track realtime production results with a production dashboard. The automated tasks illustrated include:
 - Real-Time Production Monitoring by Work Center, Job, Process, Etc.
- <u>5.4 Shop Floor Data Collection / IoT (Internet of Things) Connectivity</u>: The steps within this section illustrate how *Global Edge* can integrate with the recording of production data on the shop floor. The automated tasks illustrated include:

Recording of PLC Production Counts

- <u>5.5 Automated Production ERP Upload</u>: The steps within this section illustrate how the *Global Edge* can upload production results / data back to ERP. The automated tasks illustrated include:
 - **o** Upload of Production Results / Work in Process Inventory Transactions to ERP

5.1 – Automated Job Build / Scheduling

Sample Job Orders (J-361 "job")

The following are sample Job Orders that are downloaded from ERP that will automatically build complete Production Orders that will illustrate the *"Production Scheduling / Execution"* capabilities of the *Global Edge* system:

JOB #	TYPE	JOB DATE	REQ. DATE	SCH. START	DESCRIPTION
1001	TEMPLATE				SHEET METAL PART FABRICATION
1002	TEMPLATE				SHEET METAL PARTS & ASSEMBLIES
1003	TEMPLATE				CUSTOM JOB TEMPLATE
1004	ORDER	TODAY	TODAY + 14	TODAY + 2	FABRICATE UTILITY CABINET
1005	ORDER	TODAY	TODAY + 14	TODAY + 2	FABRICATE LIGHT FIXTURE
1006	ORDER	TODAY	TODAY + 14	TODAY + 2	DEMO SHEET METAL PARTS

Sample Job Order Work Packs (J-424 "work_pack")

The *Global Edge* system provides the capability to divide Job Orders into Work Packs of similar manufacturing operations such as fabrication work packs, assembly work packs to improve shop floor efficiency. The following are sample Job Order Work Packs that will illustrate the *"Production Scheduling / Execution"* capabilities of the *Global Edge* system:

JOB #	W.P. #	SCH. START	SCH. END	START DATE	END DATE	% OF JOB	% COMPLETE	JOB DESCRIPTION
1001	1					100	0	Sheet Metal Components
1002	1					70	0	Sheet Metal Components
1002	2					30	0	Assembly Work Pack
1003	1					100	0	Template Work Pack

Sample Manufacturing Process / Routing Operation Data (R162 "process")

The following are sample Manufacturing Processes that are utilized with Routing Operations throughout the demonstration process:

PROCESS	DESCRIPTION	CLASS	TYPE	FORMED	SHEET MTL.	STD. COST	UOM
AIDA	AIDA Stamping Operation	FRM	F	1	1	75.0000	hours
ASSEMBLY	Assembly Operation	ASM	J	0	0	50.0000	hours
BATCH-OVEN	Batch Oven Operation	OVN	0	0	1	25.0000	hours
BEND	Press Brake Bend Operation	FRM	F	1	1	75.0000	hours
CHROMATE-ETCH	Chromating-Etching Operation	FIN	М	0	1	85.0000	hours
CORNER	Corner Bending Operation	FRM	F	1	1	35.0000	hours
CURING	Curing Operation	OVN	0	0	1	25.0000	hours
CUSTOMER-APPROVAL	Customer Approval	ENG	0	0	0	60.0000	hours
CUT-TO-LENGTH	Cut-to-Length Operation	SHR	М	0	1	55.0000	hours
DEBURR	Deburring Operation	FIN	М	0	1	45.0000	hours
DRESS	Dress Operation	WLD	J	0	0	45.0000	hours
EMBOSS	Embossing Operation	PNC	М	0	1	75.0000	hours
ENGINEERING	Engineering Operation	ENG	0	0	0	60.0000	hours
FINAL-INSPECT	Final Inspection	ISP	0	0	0	35.0000	hours
FLATTEN	Flatten Operation	FRM	F	1	1	75.0000	hours



Sample Manufacturing Process / Routing Operation Data (R162 "process") – Continued ...

PROCESS	DESCRIPTION	CLASS	TYPE	FORMED	SHEET MTL.	STD. COST	UOM
FOLD	Folder Folding Operation	PNL	F	1	1	120.0000	hours
FORM	Forming Operation	FRM	F	1	1	75.0000	hours
FORM-2	Form 2 Person	FRM	F	1	1	75.0000	hours
GASKETING	Gasketing Operation	GSK	0	0	0	35.0000	hours
GENERAL-ASSEMBLY	General Assembly Operation	ASM	J	0	0	50.0000	hours
GENERAL-LABOR	General Labor	LBR	0	0	0	50.0000	hours
GRAIN	Graining Operation	FIN	М	0	1	45.0000	hours
HANGING	Hanging Operation	HNG	0	0	1	25.0000	hours
INSPECT	Inspection Operation	ISP	0	0	1	35.0000	hours
INSPECT-100	Inspect 100 Percent Operation	ISP	0	0	1	35.0000	hours
INSPECT-FINISH-DE	InspFin.+De-masking Operation	ISP	0	0	1	35.0000	hours
INSTALL-PEM-NUTS	Install Pem Nuts	PEM	J	0	0	50.0000	hours
INSTALL-PEM-STUDS	Install Pem Studs	PEM	J	0	0	50.0000	hours
LASER-CUT	Laser Cut Operation	LSR	М	0	1	140.0000	hours
MASKING	Masking Operation	PNT	L	0	1	40.0000	hours
MIG-WELD	MIG Weld Operation	WLD	J	0	0	45.0000	hours
PACKAGE	Package	PKG	0	0	0	35.0000	hours
PACKAGING	Packaging Operation	PKG	0	0	0	35.0000	hours
PACK-FOR-SHIPMENT	Pack for Shipment	PKG	0	0	0	35.0000	hours
PAINTING	Painting Operation	PNT	L	0	1	40.0000	hours
PANELBEND	Panel Bender Bending Operation	PNL	F	1	1	120.0000	hours
PEM	Pemsert Operation	PEM	J	0	0	25.0000	hours
PEM-2	Pemsert 2 Person Operation	PEM	J	0	0	25.0000	hours
POWDER-COAT	Powder Coat Operation	PNT	L	0	1	40.0000	hours
PROGRAM-NEW-PART	Program New Part Operation	PRG		0	0	50.0000	hours
PROGRAM-REV-PART	Program Revised Part Operation	PRG		0	0	50.0000	hours
PROOF-NEW-PART	Proof New Part Operation	PRF		0	0	50.0000	hours
PROOF-REV-PART	Proof Revised Part Operation	PRF		0	0	50.0000	hours
PUNCH	Turret Punch Operation	PNC	М	0	1	75.0000	hours
RIVET	Rivet Operation	ASM	J	0	0	50.0000	hours
SAND-PAINT-PREP	Sand / Paint / Preparation Operation	WPR	L	0	1	40.0000	hours
SCREEN-PRINT	Screen Printing Operation	PNT	L	0	1	40.0000	hours
SETUP-MASTER-FILE	Setup Master File Operation	PRG		0	0	50.0000	hours
SHAKE-OUT	Shake Out Operation	FIN	М	0	1	75.0000	hours
SHEAR	Shear Operation	SHR	M	0	1	55.0000	hours
SHIPPING	Shipping Operation	SHP	0	0	0	35.0000	hours
SPOT-WELD	Spot Welding Operation	WSP	J	0	0	45.0000	hours
STUD-WELDING	Stud Welding Operation	WST	J	0	0	45.0000	hours
TIG-WELD	TIG Weld Operation	WLD	J	0	0	45.0000	hours
TUMBLE-DEBURR	Tumble Deburr Operation	FIN	м	0	1	75.0000	hours
WASHING	Washing Operation	WSH	0	0	1	25.0000	hours
WASH-ONLY	Wash Only Operation	WSH	0	0	1	25.0000	hours
WELD-MD	Medium Seam-Tack Welding Operation	WLD	J	0	0	45.0000	hours
WELDING	Welding Operation	WLD	J	0	0	45.0000	hours
WHITNEY	Whitney Punch & Plasma Operation	PNC	м	0	1	75.0000	hours



Sample Machine Tool Data (T-244 "fixed_assets")

The following are sample Machine Tools that are utilized throughout the demonstration process:

ASSET #	REF #	DESCRIPTION	CAT.	ТҮРЕ	WC #	COST RATE	BILL RATE
1001	SHEAR-1001	Squaring Shear with Return Feed	PRD	SHEAR	1	55.00	71.50
1002	SHEAR-1002	Shear Punch	PRD	SHEAR-PN	1	55.00	71.50
1003	LASER-1003	CNC Laser System	PRD	LASER	3	140.00	182.00
1004	TURRET-1004	CNC Turret Punch Press	PRD	TURRET	4	75.00	97.50
1005	TURRET-1005	Embossing Station	PRD	TURRET	4	35.00	45.50
1006	PEM-1006	Pemserter	PRD	PEMSERT	5	25.00	32.50
1007	PB-1007	CNC Hydraulic Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1008	PANEL-1008	CNC Panel Bender	PRD	PANEL-B	7	120.00	156.00
1009	WELD-1009	MIG Welder	PRD	WELDING	9	45.00	58.50
1010	WELD-1010	TIG Welder	PRD	WELDING	9	45.00	58.50
1011	FINISH-1011	Deburring Machine	PRD	FINISH	8	50.00	65.00
1012	FINISH-1012	Belt Sander	PRD	FINISH	8	25.00	32.50
1013	GRAIN-1013	Graining Machine	PRD	OTHER	8	45.00	58.50
1014	POLISH-1014	Polisher Station	PRD	POLISH	8	45.00	58.50
1015	HANG-1015	Hanging Station	PRD	HANGING	10	25.00	32.50
1016	WASH-1016	Wash Station	PRD	WASH	10	25.00	32.50
1017	PAINT-1017	Paint Booth	PRD	PAINT	10	40.00	52.00
1018	PAINT-1018	Sand-Paint Prep Station	PRD	PAINT	10	40.00	52.00
1019	OVEN-1019	Cure Oven	PRD	OVEN	10	25.00	32.50
1020	KITTING-1020	Kitting Station	PRD	KITTING	11	50.00	65.00
1021	ASSM-1021	Assembly Line	PRD	ASSEMBLY	11	50.00	65.00
1022	PRESS-1022	Press	PRD	ASSEMBLY	11	50.00	65.00
1023	ASSM-1023	Rivetor	PRD	ASSEMBLY	11	50.00	65.00
1024	GASKET-1024	Gasketing Station	PRD	GASKET	11	35.00	45.50
1025	LABOR-1025	General Labor	PRD	GENERAL	11	50.00	65.00
1026	INSPECT-1026	Inspection Station	PRD	INSPECT	12	35.00	45.50
1027	PACK-1027	Packaging Station	PRD	PACKAGE	14	35.00	45.50
1028	SHIP-1028	Shipping Station	PRD	SHIPPING	15	35.00	45.50
1029	WINDOWS	Windows Server	CMP			0.00	0.00
1030	CI-PB-1030	Cincinnati 135 MX8 Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1031	CI-PB-1031	Cincinnati 90 AF Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1032	CI-PB-1032	Cincinnati 135 AF Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1033	CI-PB-1033	Cincinnati 175 AF Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1034	CI-PB-1034	Cincinnati 230 AF Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1035	CI-PB-1035	Cincinnati 350 AF Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1036	FL-1-1036	Fork Lift #1	PRD	GENERAL		0.00	0.00
1037	FL-2-1037	Fork Lift #2	PRD	GENERAL		0.00	0.00
1038	CART #1-1038	Inventory Cart #1	PRD	GENERAL		0.00	0.00
1039	CART #2-1039	Inventory Picking and Stocking Cart	PRD	GENERAL		0.00	0.00
1040	GRIND-1040	Small Manual Grinding Station	PRD	WELDGRND	8	25.00	32.50
1041	CI-SHR-1041	Cincinnati HS Series Shear	PRD	SHEAR	1	55.00	71.50

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ASSET #	REF #	DESCRIPTION	CAT.	TYPE	WC #	COST RATE	BILL RATE
1042	WELDING-1042	Medium Manual Door Bay Station (Line 1)	PRD	WELDING	9	45.00	58.50
1043	WLDSTUD-1043	Medium Manual Studding Mach (Capacitive)	PRD	WELDSTUD	9	45.00	58.50
1044	WLDTACK-1044	Medium Manual Tack Machine (Line 1)	PRD	WELDTACK	9	45.00	58.50
1045	WLDSPOT-1045	Medium Manual Spot Welding Station	PRD	WELDSPOT	9	45.00	58.50
1046	SCREEN-1046	Screen Printing Machine	PRD	OTHER	10	40.00	52.00
1047	CHROME-1047	Chromating / Etching Machine	PRD	OTHER	8	85.00	110.50
1048	MASK-1048	Masking Machine	PRD	OTHER	10	40.00	52.00
1049	DRESS-1049	Dressing Machine	PRD	OTHER	9	45.00	58.50
1050	SHAKE-1050	Shake-Out Machine	PRD	OTHER	8	75.00	97.50
1051	PUNCH-1051	Punch & Plasma Machine	PRD	OTHER	2	75.00	97.50
1052	STAMP-1052	Stamping Machine	PRD	OTHER	7	75.00	97.50
1053	WORK-1053	Work Bench Table	PRD	ASSEMBLY	11	50.00	65.00
1054	CORNER-1054	Corner Machine	PRD	OTHER	7	75.00	97.50
1055	PR-BRK-1055	JOG Press Brake	PRD	PR-BRAKE	7	75.00	97.50
1056	ROLLER-1056	Roller Machine	PRD	OTHER	7	75.00	97.50

Sample Machine Tool Data (T-244 "fixed_assets") – Continued ...

Sample Workstation Screen

Once the Production Jobs are automatically generated scheduled from the downloaded ERP Job Orders, the *Global Edge* system assigns each of the jobs to the appropriate Workstation screen to execute production schedules for each work center (Work Cell). The following are sample Workstation schedules will illustrate the *"Production Scheduling / Execution"* capabilities of the *Global Edge* system.

Sample Workstation Production Schedule

Asset #	Machine Tool Description	Dept #	W.C. #					
1006	Salvagnini L3Xe Fiber	8	3					
Job #	Part Number	Process	Trans #	Prod. #	Card #	Sch. Start	Sch. End	Qty.
1008	SLD-002-WRAP-325616-0001	LASER-CUT	777	1001	46	5/24/2021	5/29/2021	5.0000
1008	SLD-003-CAB-BOT-5616-0001	LASER-CUT	779	1003	48	5/24/2021	5/29/2021	5.0000
1008	SLD-004-CAB-TOP-5616-0001	LASER-CUT	780	1004	49	5/24/2021	5/29/2021	5.0000
1008	SLD-015-FILL-PNL-1627-0001	LASER-CUT	781	1005	50	5/24/2021	5/29/2021	5.0000
1008	SLD-017-SPINE-CT-32-0001	LASER-CUT	784	1008	53	5/24/2021	5/29/2021	5.0000
1008	SLD-018-SPINE-LT-32-0001	LASER-CUT	786	1010	55	5/24/2021	5/29/2021	5.0000
1008	SLD-019-SPINE-RT-32-0001	LASER-CUT	788	1012	57	5/24/2021	5/29/2021	5.0000



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Asset #	Machine Tool Description	Dept #	W.C. #	_				
1123	Cincinnati CL900 Laser	8	3					
Job #	Part Number	Process	Trans #	Prod. #	Card #	Sch. Start	Sch. End	Qty.
1009	LIGHT-01-LENSE-FRAME	LASER-CUT	623	1026	71	5/25/2021	5/30/2021	10.0000
1009	LIGHT-03-LENSE-BRACKET	LASER-CUT	630	1028	73	5/25/2021	5/30/2021	10.0000
1009	LIGHT-04-HOUSING-FLANGE	LASER-CUT	637	1030	75	5/25/2021	5/30/2021	10.0000
1009	LIGHT-05-LENSE-RET-BRKT	LASER-CUT	644	1032	77	5/25/2021	5/30/2021	10.0000
1009	LIGHT-06-FIXTURE-HOUSING	LASER-CUT	651	1034	79	5/25/2021	5/30/2021	10.0000
1009	LIGHT-07-YOKE-BRACKET	LASER-CUT	658	1036	81	5/25/2021	5/30/2021	10.0000
1010	CI-01-4-11759_201A_07	LASER-CUT	794	1076	121	5/26/2021	5/31/2021	15.0000
1011	CI-02-4-11811_126_15	LASER-CUT	806	1088	133	5/27/2021	6/1/2021	20.0000
1012	CI-03-4-11811_126_131	LASER-CUT	818	1100	145	5/28/2021	6/2/2021	25.0000
1013	CI-04-09-1908-A	LASER-CUT	829	1111	156	5/29/2021	6/3/2021	30.0000
1014	CI-05-1000-018-B2-PLG	LASER-CUT	841	1123	168	5/30/2021	6/4/2021	35.0000

Asset #	Machine Tool Description	Dept #	W.C. #					
1109	Cincinnati HS Series Shear	8	1					
Job #	Part Number	Process	Trans #	Prod. #	Card #	Sch. Start	Sch. End	Qty.
1008	SLD-016-HORZ-DIV-55-0001	CUT-TO-LENGTH	782	1006	51	5/24/2021	5/29/2021	5.0000
1008	SLD-020-VERT-DIV-BOT-15-0001	CUT-TO-LENGTH	790	1014	59	5/24/2021	5/29/2021	5.0000
1008	SLD-021-VERT-DIV-TOP-16-0001	CUT-TO-LENGTH	792	1016	61	5/24/2021	5/29/2021	5.0000
1009	LIGHT-09-FRAME-CHANNEL	CUT-TO-LENGTH	851	1038	83	5/25/2021	5/30/2021	10.0000
Production Scheduling / Execution Workflow Diagram

Global Edge Integrated Manufacturing provides the capabilities to drive and record production on a real-time basis using the information generated throughout the integrated factory enterprise.



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5.1 – Automated Job Build / Scheduling

These steps illustrate the automated job build and scheduling capabilities of orders that were downloaded from ERP.

Workflow Steps

1. Select the "Manufacturing > Job Order Maintenance" option on the Global Edge main menu:



2. The "Job Maintenance" screen is displayed:





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3. Select the "Jobs" option to display the "Job Build" screen:

💻 JO	B IMPORT BUI	LD: Global Edge Demo Server							-		×
Job	Build									JOBS	
										<u>S</u> e	lect
INC	10B #	PRIORITY DESCRIPTION	CUST #	COMPANY NAME	10B DATE	REQUIRED DAT	F STATUS	TEMPLATE 10B :	~		All
	1009	3 Cabinet Body (ERP Download)	1001	ABC MANUFACTURING	08/03/2021	08/17/2021	Build			d	ear
	1010	3 Light Fixture (ERP Download)	1001	ABC MANUFACTURING	08/04/2021	08/18/2021	Build				
	1011	3 CI - Apron (ERP Download)	1001	ABC MANUFACTURING	08/05/2021	08/19/2021	Build			Tem	olates
	1012	3 CI - Load Center Box (ERP Dow	1001	ABC MANUFACTURING	08/06/2021	08/20/2021	Build			Bee	
	1013	3 CI - Bottom Display Light Housin	1001	ABC MANUFACTURING	08/07/2021	08/21/2021	Build			Ver	uery
	1014	3 CI - Sheet Metal Housing (ERP	1001	ABC MANUFACTURING	08/08/2021	08/22/2021	Build			B	uild
	1015	3 CI - Sheet Metal Panel (ERP Do	1001	ABC MANUFACTURING	08/09/2021	08/23/2021	Build				
	1016	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/10/2021	08/24/2021	Build			Īs	sue
	1017	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/11/2021	08/25/2021	Build			scH	edule
	1018	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/12/2021	08/26/2021	Build				
									\sim	Q	JIT
	BUILD JOBS:	10 PENDING JOBS:		ISSUED JOBS:	0	TOTAL JOBS:	10	BUILT JOBS:	0		
B	UILD SELECTED:	PENDING SELECTED:		ISSUED SELECTED:	0 SI	ELECTED JOBS:	0	ISSUED JOBS:	0		
1								SCHEDULED JOBS:	0		
								ON HOLD JOBS:	0		
MRP											
	-										
Select J	obs										OVR .:

Global Edge provides the ability to automatically build jobs that have been downloaded from ERP that are structured and scheduled based on rules from template jobs that can be customized for specific product lines. During this process, **Global Edge** automatically matches each of the job orders with the appropriate user defined template jobs and then builds the job organizing and scheduling operations into optimized work packs that make efficient use of machine tools and people.

4. Select the "*Templates*" option to assign the appropriate TEMPLATE JOB to the downloaded jobs followed by the "*All*" option which will display the following:

JOE	IMPORT BUI	LD: Global Edge Demo Server								-	
		-								-1	IOBS
JOD-B	uild										
											Select
INCL	JOB #	PRIORITY DESCRIPTION	CUST #	COMPANY NAME	JOB DATE	REQUIRED DATE	STATUS	TEMPLATE JOB ;	~	Ľ	<u>A</u> ll
\checkmark	1009	3 Cabinet Body (ERP Download)	1001	ABC MANUFACTURING	08/03/2021	08/17/2021	Build	1005			Clear
\checkmark	1010	3 Light Fixture (ERP Download)	1001	ABC MANUFACTURING	08/04/2021	08/18/2021	Build	1006			
\checkmark	1011	3 CI - Apron (ERP Download)	1001	ABC MANUFACTURING	08/05/2021	08/19/2021	Build	1007			Templates
	1012	3 CI - Load Center Box (ERP Dow	1001	ABC MANUFACTURING	08/06/2021	08/20/2021	Build	1007			Dequery
\checkmark	1013	3 CI - Bottom Display Light Housin	1001	ABC MANUFACTURING	08/07/2021	08/21/2021	Build	1007			Reducia
\checkmark	1014	3 CI - Sheet Metal Housing (ERP	1001	ABC MANUFACTURING	08/08/2021	08/22/2021	Build	1007			Build
\checkmark	1015	3 CI - Sheet Metal Panel (ERP Do	1001	ABC MANUFACTURING	08/09/2021	08/23/2021	Build	1007			
\checkmark	1016	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/10/2021	08/24/2021	Build	1008			Issue
\checkmark	1017	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/11/2021	08/25/2021	Build	1008			scHedule
\checkmark	1018	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/12/2021	08/26/2021	Build	1008			-
									\sim		QUIT
	BUILD JOBS:	10 PENDING JOBS:		ISSUED JOBS:	0	TOTAL JOBS:	10	BUILT JOBS:	0		
BU:	ILD SELECTED:	10 PENDING SELECTED:		ISSUED SELECTED:	0 9	ELECTED JOBS:	10	ISSUED JOBS:	0		
								SCHEDULED JOBS:	0		
								ON HOLD JOBS:	0		
MRP_											
ect All	Jobs										OV

5. Select the "**Build**" option to execute the automated build of the selected jobs. When the job build is complete, the following is displayed:

lob-Bi	uild									JOBS Select
NCL	JOB #	PRIORITY DESCRIPTION	CUST #	COMPANY NAME	JOB DATE	REQUIRED DATE	STATUS	TEMPLATE JOB :		All
\checkmark	1009	3 Cabinet Body (ERP Download)	1001	ABC MANUFACTURING	08/03/2021	08/17/2021	Pending	1005		Clear
\checkmark	1010	3 Light Fixture (ERP Download)	1001	ABC MANUFACTURING	08/04/2021	08/18/2021	Pending	1006		
\checkmark	1011	3 CI - Apron (ERP Download)	1001	ABC MANUFACTURING	08/05/2021	08/19/2021	Pending	1007		Templa
\checkmark	1012	3 CI - Load Center Box (ERP Dow.	1001	ABC MANUFACTURING	08/06/2021	08/20/2021	Pending	1007		Reque
\checkmark	1013	3 CI - Bottom Display Light Housin.	1001	ABC MANUFACTURING	08/07/2021	08/21/2021	Pending	1007		2-4
\checkmark	1014	3 CI - Sheet Metal Housing (ERP	1001	ABC MANUFACTURING	08/08/2021	08/22/2021	Pending	1007		<u>B</u> uild
\checkmark	1015	3 CI - Sheet Metal Panel (ERP Do	1001	ABC MANUFACTURING	08/09/2021	08/23/2021	Pending	1007		Teerus
\leq	1016	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/10/2021	08/24/2021	Pending	1008		Issue
\leq	1017	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/11/2021	08/25/2021	Pending	1008		scHedu
\checkmark	1018	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/12/2021	08/26/2021	Pending	1008		
									~	<u>Q</u> UIT
	BUILD JOBS	PENDING JOBS:		ISSUED JOBS:	0	TOTAL JOBS:	10	BUILT JOBS:	10	
BUI	LD SELECTED	PENDING SELECTED:		ISSUED SELECTED:	0 S	ELECTED JOBS:	10	ISSUED JOBS:	0	
								SCHEDULED JOBS:	0	
								ON HOLD JOBS:	0	

6. Select the *"Issue"* option to issue the Pending jobs that are selected by the check boxes. When the job issue is complete, the following is displayed:

🗯 JO	B IMPORT BUI	LD: Global Edge Demo Server							_	D X	
Job	Build									JOBS	
										Select	
INCL	JOB #	PRIORITY DESCRIPTION	CUST #	COMPANY NAME	JOB DATE	REQUIRED DATE	STATUS	TEMPLATE JOB :	~	<u>A</u> ll	
	1009	3 Cabinet Body (ERP Download)	1001	ABC MANUFACTURING	08/03/202	1 08/17/2021	Issued	1005		Clear	
	1010	3 Light Fixture (ERP Download)	1001	ABC MANUFACTURING	08/04/202	1 08/18/2021	Issued	1006			
	1011	3 CI - Apron (ERP Download)	1001	ABC MANUFACTURING	08/05/202	1 08/19/2021	Issued	1007		Templates	
	1012	3 CI - Load Center Box (ERP Dow	1001	ABC MANUFACTURING	08/06/202	1 08/20/2021	Issued	1007		Requery	
	1013	3 CI - Bottom Display Light Housin	1001	ABC MANUFACTURING	08/07/202	1 08/21/2021	Issued	1007		Ecdaci y	
	1014	3 CI - Sheet Metal Housing (ERP	1001	ABC MANUFACTURING	08/08/202	1 08/22/2021	Issued	1007		Build	
	1015	3 CI - Sheet Metal Panel (ERP Do	1001	ABC MANUFACTURING	08/09/202	1 08/23/2021	Issued	1007			
	1016	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/10/202	1 08/24/2021	Issued	1008		Issue	
	1017	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/11/202	1 08/25/2021	Issued	1008		scHedule	
	1018	3 Transformer (ERP Download)	1003	XYZ INCORPORATED	08/12/202	1 08/26/2021	Issued	1008		_	
									\sim	QUIT	
	BUILD JOBS	PENDING JOBS:		ISSUED JOBS:	10	TOTAL JOBS:	10	BUILT JOBS:	10		
B	JILD SELECTED	PENDING SELECTED:		ISSUED SELECTED:	10	SELECTED JOBS:	10	ISSUED JOBS:	10		
								SCHEDULED JOBS:	0		
								ON HOLD JOBS:	0		
MRP	-										
issue Se	lected Jobs									OVR	

7. Select the "Schedule" option to schedule the Issued jobs that are selected by the check boxes. When the job schedule generation is complete, the following is displayed:

.	OB IMPC	ORT BUI	LD: Global I	Edge Der	no Server							-		×
Jo	b-Build												JOBS	
													Se	lect
IN	L JOB #	ŧ	PRIORITY I	DESCRIPT	ION	CUST #	COMPANY NAME	JOB DAT	REQUIRED DAT	TE STATUS	TEMPLATE JOB ;	^	4	<u>A</u> II
6		1009	3 (Cabinet Bo	ody (ERP Download)	1001	ABC MANUFACTURING	08/03/20	21 08/17/2021	Scheduled	1005		d	ear
	-	1010	3 L	.ight Fixtu	re (ERP Download)	1001	ABC MANUFACTURING	08/04/20	21 08/18/2021	Scheduled	1006			
6	-	1011	3 (CI - Apron	(ERP Download)	1001	ABC MANUFACTURING	08/05/20	21 08/19/2021	Scheduled	1007		Tem	plates
		1012	3 (CI - Load	Center Box (ERP Dow	1001	ABC MANUFACTURING	08/06/20	21 08/20/2021	Scheduled	1007		Rec	uery
	2	1013	3 (CI - Botto	m Display Light Housin	1001	ABC MANUFACTURING	08/07/20	21 08/21/2021	Scheduled	1007			
		1014	3 (CI - Sheet	Metal Housing (ERP	1001	ABC MANUFACTURING	08/08/20	21 08/22/2021	Scheduled	1007		B	uild
	4	1015	3 (CI - Sheet	Metal Panel (ERP Do	1001	ABC MANUFACTURING	08/09/20	21 08/23/2021	Scheduled	1007		Te	5110
	2	1016	3 1	Transform	er (ERP Download)	1003	XYZ INCORPORATED	08/10/20	21 08/24/2021	Scheduled	1008		79	Juc
	2	1017	3 1	Transform	er (ERP Download)	1003	XYZ INCORPORATED	08/11/20	21 08/25/2021	Scheduled	1008		scH	edule
	1	1018	3	Iransform	er (ERP Download)	1003	XYZ INCORPORATED	08/12/20	21 08/26/2021	Scheduled	1008			
												\sim	Q	JIT
	BUIL	D JOBS:		0	PENDING JOBS:		0 ISSUED JOBS:	0	TOTAL JOBS:	10	BUILT JOBS:	10		
	BUILD SEL	ECTED:		0	PENDING SELECTED:		0 ISSUED SELECTED:	0	SELECTED JOBS:	0	ISSUED JOBS:	10		
											SCHEDULED JOBS:	10		
											ON HOLD JOBS:	0		
MR	P													
	-													Laural
Sched	uie Selecte	ed Jobs												OVR .



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5.2 – Workstation Screen / Load Balancing / Schedule Export

These steps illustrate the workstation screen including load balancing and the exporting of production schedules to a CSV file for the purpose of integration with a third-party scheduling system.

Workflow Steps

1. Select the "*Manufacturing* > *Workstation*" option on the *Global Edge* main menu:



2. This will display the following Workstation screen and menu options:





3. Select "Location" option and enter Location, Department and Work Center numbers including the Machine Tool number to access, followed by filling in the PROCESS field which will display the following Job Orders:





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4. Select "Filter" option and check the "Alt Machine Tool Jobs" check box followed by "OK > View" option to include production orders scheduled and assigned to other machine tools that can be run on the selected machine tool:

WORK	STATION: G	lobal Edge De	mo Server											_		×
Work-Ord	lers Prod	uction Part	ts Trave	elers											WORKS	TATION
										ORDER	STATUS				Loca	ation
LOGIN:	ldc]			EMPL #:				Pending	Hold				E	lter
LOC #:	1	CORP. HEADOL	UARTERS / I	MANUFACTUR	LING	DATE:	08/03/2021	TUESDAY		Issued	Finish				Durad	
DEPT #:	8		ING				LEVEL:			Scheduled	Canceled				Produ	JCUON
WC #	2		c			OPE		20							<u>V</u> ie	ew
			9												Sche	edule
MACH #:	11	23 Cincinnat	ti CL900 Las	er					MODE	E: SCHEDULED					-	
PROCESS:	LASER-CU	Г		Laser Cut						Alt Machine T	ool Jobs				Twt	port
INCL JO	B # C	ARD # AL	T ASSET #	ALT REF #	PART #	D	ESCRIPTION			QTY BALANCE UOM	1 PRIORITY	START DAT	E STATUS	^	Transa	actions
	1009	1214	1006	LASER-1006	SLD-017-SPINE-CT-3	2-00 C	ABINET SPINE - CE	VTER.		5.0000 EA	3	08/05/2021	Scheduled		Requi	isitions
	1009	1216	1006	LASER-1006	SLD-018-SPINE-LT-32	2-0001 C	ABINET SPINE - CO	RNER - LEFT		5.0000 EA	3	08/05/2021	Scheduled		<u>IC</u> cqui	SIGOID
	1009	1213	1006	LASER-1006	SLD-015-FILL-PNL-16	27 C	ABINET FILL PANEL			5.0000 EA	3	08/05/2021	Scheduled		Pa	erts
	1009	1218	1006	LASER-1006	SLD-019-SPINE-RT-3	2-00 C	ABINET SPINE - CO	RNER - RIGHT		5.0000 EA	:	08/05/2021	Scheduled			
	1009	1209	1006	LASER-1006	SLD-002-WRAP-3256	16 C	ABINET BODY WRA	P		5.0000 EA	:	08/05/2021	Scheduled		Che	ck-In
	1009	1212	1006	LASER-1006	SLD-004-CAB-TOP-56	516 C	ABINET BODY TOP			5.0000 EA	3	08/05/2021	Scheduled		M	ode
	1009	1211	1006	LASER-1006	SLD-003-CAB-BOT-56	516 C	ABINET BODY BOTT	OM		5.0000 EA	:	08/05/2021	Scheduled		<u></u>	Juc
	1010	1235			LIGHT-03-LENSE-BRA	CKET LI	GHT FIXTURE LENS	E BRACKET		10.0000 each	1 3	08/06/2021	Scheduled		Or	der
	1010	1228			LIGHT-01-LENSE-FRA	ME LI	GHT FIXTURE LENS	E FRAME		10.0000 each	1 3	08/06/2021	Scheduled			
	1010	1263			LIGHT-07-YOKE-BRAG	CKET LI	GHT FIXTURE YOK	BRACKET		10.0000 each	1 3	08/06/2021	Scheduled		QL	JIT
	1010	1256			LIGHT-06-FIXTURE-H	OUS LI	GHT FIXTURE HOU	SING		10.0000 each	. 3	08/06/2021	Scheduled			
	1010	1249			LIGHT-05-LENSE-RET	-BRKT LI	GHT FIXTURE LENS	E RETAINING BRA	CKET	10.0000 each	. 3	08/06/2021	Scheduled			
	1010	1242			LIGHT-04-HOUSING-F	LA LI	GHT FIXTURE HOU	SING FLANGE		10.0000 each		08/06/2021	Scheduled			
	1011	1270			CI-01-4-11759 201A	07 A	PRON			50.0000 EA		08/07/2021	Scheduled			
	1012	1284			CI-02-4-11811 126	15 LO	DAD CENTER BOX			125.0000 EA		08/08/2021	Scheduled			
	1013	1298			CI-03-4-11811 126	131 BO	OTTOM DISPLAY LT	GHT HOUSING		75.0000 EA		08/09/2021	Scheduled			
	1014	1312			CI-04-09-1908-A	St	HEET METAL HOUST	NG		50.0000 EA		08/10/2021	Scheduled			
	1015	1326			CI-05-1000-018-B2-P	1G SF				100.0000 FA		08/11/2021	Scheduled			
	1016	1343	1005	ASER-1005	DEMO-XEORM-BOTTO	DM TE	ANSEORMER CAR	NET BOTTOM		20.0000 each		08/12/2021	Scheduled			
	1016	1347	1005	ASER-1005	DEMO-XEORM-LID	л ТТ	RANSFORMER CAB	NET LID		20.0000 each		08/12/2021	Scheduled			
	1016	1345	1005	ASER-1005	DEMO-XEORM-ERON	т т	ANSFORMER FRO	VT PANEI		20.0000 each		08/12/2021	Scheduled			
	1016	1349	1005	ASER-1005	DEMO-XEORM-WRAP	PER TE	ANSFORMER BOD	WRAPPER		20.0000 each		08/12/2021	Scheduled			
	1017	1354	1005	ASER-1005	DEMO-XEORM-BOTTO		ANSEORMER CAR	NET BOTTOM		15 0000 each		08/13/2021	Scheduled			
	1017	1358	1005	ASER-1005	DEMO-XEORM-LTD	ана 10 то	ANSEORMER CAR	NET LTD		15 0000 each		08/13/2021	Scheduled			
	1017	1356	1005	ASED-1005	DEMO-YEORM-EDOM	т т	ANSEODMED EDO	T DANEI		15 0000 each		08/13/2021	Scheduled			
	1017	1360	1005	LASED-1005	DEMO-XFORM-WDAP					15,0000 each		08/13/2021	Scheduled			
	1012	1271	1005	LASED-1005	DEMO-XFORM-WRAP		ANCEODMED DOD			20.0000 each		08/14/2021	Scheduled			
	1018	13/1	1005	LAGED-1005	DEMO-XFORM-WRAP		ANSEODMED CAP	NETLID		30.0000 each		08/14/2021	Scheduled			
	1018	1365	1005	LASED 1005	DEMO-XFORM-LID		ANSEODMED CAD			30.0000 each		08/14/2021	Scheduled			
	1018	1305	1005 1	LASER-1005	DEMO-XPORM-BOTTO	기억 - 도	ANSEODMED TOO			30.0000 each		08/14/2021	Scheduled			
	1018	1367	1005	LASER-1005	DEMO-XFORM-FROM		KANSFORMER FRO	NT PAINEL		30.0000 each		08/14/2021	Scheduled	~		
<													>			
	OPE	N CARDS:		30	SET-UP-TIME:	1.80	RUN-TIME:	15.39	TOTAL I	HOURS:	17.19					
	SELECTE	D CARDS:		0	SET-UP-TIME:	0.00	RUN-TIME:	0,00	TOTAL I	HOURS:	0.00					
							9									
MIMD 1																
MANAGE																
View Open W	ork Orders															OVR .::

Global Edge provides a full functioned workstation screen that provides the shop floor operator to manage the work centers they oversee. This includes the ability to load balance orders between available machines and export schedules to third party scheduling software.



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5. Select "*Production > Select*" option and select the Job to record production for:

🖷 WO	RK STATION:	Global Edge	Demo Serve	r									-		×
Work	Orders Pro	oduction	Parts Trav	/elers										OK	
Selec	t Work Order fo	or Transactio	ns, then Press	[OK]:					ORDER S	TATUS				OK	
LOC	SIN: Ide					EMPL #			Pending	Hold	_			Cancel	
100	- #• 1		DOLIADTERS		DINC	DATE		1	Issued	Finish				E6-Detail	
LOC	. #: 1	CORP. HEA	DQUARTERS	MANUFACTU	KING		WEDNESDAT	1	Issueu					10-Detail	
DEPT	F#: 8	MANUFACT	URING				LEVEL:		Scheduled	Canceled					
wo	3 #:	LASER CUT	TING			0	PEN WORK ORDERS: 30		V WIP	All					
MACH	l #: 1	1123 Cincir	nati CL900 La	ser				мо	DE: SCHEDULED]					
PROCE	SS: LASER-C	107		Laser Out					Alt Machine To) al labs					
		201		cusci cut							_				
INCL	JOB #	CARD #	ALT ASSET #	ALT REF #	PART #	[DESCRIPTION		QTY BALANCE UOM	PRIORITY ST	ART DATE	STATUS ^			
	1009	1036	1006	LASER-1006	SLD-017-SPINE-CT	-32-00 0	CABINET SPINE - CENTER		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1038	1006	LASER-1006	SLD-018-SPINE-LT	-32-0001	CABINET SPINE - CORNER - LEFT		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1035	1006	LASER-1006	SLD-015-FILL-PNL-	1627 0	CABINET FILL PANEL		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1040	1006	LASER-1006	SLD-019-SPINE-RT	-32-00 0	CABINET SPINE - CORNER - RIGHT		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1031	1006	LASER-1006	SLD-002-WRAP-32	5616 0	CABINET BODY WRAP		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1034	1006	LASER-1006	SLD-004-CAB-TOP	-5616 0	CABINET BODY TOP		5.0000 EA	3 07	/29/2021	Scheduled			
	1009	1033	1006	LASER-1006	SLD-003-CAB-BOT	-5616 0	CABINET BODY BOTTOM		5.0000 EA	3 07	/29/2021	Scheduled			
	1010	1057			LIGHT-03-LENSE-B	RACKET L	IGHT FIXTURE LENSE BRACKET		10.0000 each	3 07	/30/2021	Scheduled			
	1010	1050			LIGHT-01-LENSE-F	RAME L	IGHT FIXTURE LENSE FRAME		10.0000 each	3 07	/30/2021	Scheduled			
	1010	1085			LIGHT-07-YOKE-BH	ACKET L	IGHT FIXTURE YOKE BRACKET		10.0000 each	3 07	/30/2021	Scheduled			
	1010	1076			LIGHT-06-FIXTURE		IGHT FIXTURE HOUSING	CKET	10.0000 each	3 07	/30/2021	Scheduled			
	1010	1071			LIGHT-03-LENSE-K		TOUT FIXTURE HOUSING ELANCE	ACKET	10.0000 each	2 07	/20/2021	Scheduled			
	1010	1007			CI-01-4-11759 20	10.07 /	ADD ON		50 0000 EA	3 07	/31/2021	Scheduled			
	1012	11052			CI-02-4-11811 12	6 15	OAD CENTER BOX		125 0000 EA	3 08	/01/2021	Scheduled			
	1013	1120			CI-03-4-11811 12	6_131 F	ROTTOM DISPLAY LIGHT HOUSING		75.0000 FA	3 08	/02/2021	Scheduled			
	1014	1134			CI-04-09-1908-A	9	HEET METAL HOUSING		50.0000 EA	3 08	/03/2021	Scheduled			
	1015	1148			CI-05-1000-018-B	2-PLG S	HEET METAL PANEL		100.0000 EA	3 08	/04/2021	Scheduled			
	1016	1165	1005	LASER-1005	DEMO-XFORM-BOT	том 1	RANSFORMER CABINET BOTTOM		20.0000 each	3 08	/05/2021	Scheduled			
	1016	1169	1005	LASER-1005	DEMO-XFORM-LID	1	RANSFORMER CABINET LID		20.0000 each	3 08	/05/2021	Scheduled			
	1016	1167	1005	LASER-1005	DEMO-XFORM-FRO	DNT TRO	RANSFORMER FRONT PANEL		20.0000 each	3 08	/05/2021	Scheduled			
	1016	1171	1005	LASER-1005	DEMO-XFORM-WR	APPER 1	RANSFORMER BODY WRAPPER		20.0000 <mark>each</mark>	3 08	/05/2021	Scheduled			
	1017	1176	1005	LASER-1005	DEMO-XFORM-BOT	гтом т	RANSFORMER CABINET BOTTOM		15.0000 each	3 08	/06/2021	Scheduled			
	1017	1180	1005	LASER-1005	DEMO-XFORM-LID	1	RANSFORMER CABINET LID		15.0000 each	3 08	/06/2021	Scheduled			
	1017	1178	1005	LASER-1005	DEMO-XFORM-FRO	DNT T	RANSFORMER FRONT PANEL		15.0000 each	3 08	/06/2021	Scheduled			
	1017	1182	1005	LASER-1005	DEMO-XFORM-WR	APPER 1	RANSFORMER BODY WRAPPER		15.0000 each	3 08	/06/2021	Scheduled			
	1018	1193	1005	LASER-1005	DEMO-XFORM-WR	APPER 1	RANSFORMER BODY WRAPPER		30.0000 <mark>each</mark>	3 08	/07/2021	Scheduled			
	1018	1191	1005	LASER-1005	DEMO-XFORM-LID	1	RANSFORMER CABINET LID		30.0000 each	3 08	/07/2021	Scheduled			
	1018	1187	1005	LASER-1005	DEMO-XFORM-BOT	ITOM 1	RANSFORMER CABINET BOTTOM		30.0000 each	3 08	/07/2021	Scheduled			
	1018	1189	1005	LASER-1005	DEMO-XFORM-FRO	TNC	RANSFORMER FRONT PANEL		30.0000 each	3 08	/07/2021	Scheduled			
<												>			
	0	PEN CARDS-		30	SET-UP-TIME-	1.00	RUN-TIME: 15.20	TOTA	HOURS: 17	19					
	0			50		1.00	12.34		17.						
	SELECT	TED CARDS:		0	SET-UP-TIME:	0.00	RUN-IIME: 0.00	IOTAL	HOURS: 0.						
MWR1															
														OV	/D -



5. Select "OK" to display the following screen form and menu options:

CARD #: 1057 SEQ #: [Laser Cut Operation TYPE: Process QTY. SCHEDULED: 10.0 PREVIOUS: 0.0 PREVIOUS: 0.0	1 [LASER-CUT STATUS: 0000 UOM: []	T Scheduled V	PART #: LIGHT FIXTURE LI	STD. F	HR. COST:	NITS/HOUR:	\$140.0000 72.2439	Einish Update BOM Process NC Program Documents Notes
TYPE: Process QTY. SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: SCRAPPED:	STATUS:	Scheduled V	STD TIME/UNIT:	ENSE BRACKET STD. F 0.01384 r DATE/TIME:	г 	NITS/HOUR:	\$140.0000 72.2439	Update BOM Process NC Program Document Notes
TYPE: Process	STATUS: 1000 UOM: 1000	Scheduled V	STD TIME/UNIT: START	STD. F 0.01384 r DATE/TIME:	HR. COST:	NITS/HOUR:	\$140.0000 72.2439	BOM Process NC Progra Documen Notes
TYPE: Process 2TY, SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: CONTRACTOR SCRAPPED: CONTRACTOR	STATUS:	Scheduled V	STD TIME/UNIT: START	STD. F 0.01384 F DATE/TIME:	HR. COST:	NITS/HOUR:	\$140.0000 72.2439	Process NC Progra Documen Notes
TYPE: Process 2TY. SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: SCRAPPED:	STATUS: 1000 UOM:	Scheduled V	STD TIME/UNIT:	STD. F 0.01384 F DATE/TIME:	HR. COST:	NITS/HOUR:	\$140.0000 72.2439	NC Progra
TYPE: Process TY. SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: SCRAPPED:	STATUS:	Scheduled \vee	STD TIME/UNIT:	STD. F 0.01384 F DATE/TIME:	HR. COST:	NITS/HOUR:	\$140.0000 72.2439	
TYPE: Process TY, SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: SCRAPPED:	STATUS:	Scheduled \vee	STD TIME/UNIT:	0.01384	HR(S) U	NITS/HOUR:	72.2439	Notes
TY. SCHEDULED: 10.0 PREVIOUS: 0.0 PRODUCED: SCRAPPED:	0000 UOM:		START	DATE/TIME:	bĭ	_		OUT
PREVIOUS: 0.0 PRODUCED: SCRAPPED:	0000				12.9	3		Qui
PRODUCED: SCRAPPED:			END	DATE/TIME:	1.)	3		
SCRAPPED:			1	RUN HOURS:				
			P	ARTS/HOUR:				
BALANCE: 10.0	0000			PART COST:				
START DATE/TIME EN	D DATE/TIME	HOURS	QTY PRODUCED	SCRAPPED	COMPLET	TE APPRVD	POSTED	
IWR2								

6. Select "*Finish*" option and record Quantity Produced and Quantity Scrapped including entering END DATE/TIME which will display the following prompt:

WORK STATION: Global Edge Demo Server				-	· 🗆	×
Workstation				Ist	End Time Cor	rect?
					<u>Y</u> es	
CARD #: 1057 SEQ #: 1 LASE	R-CUT PAR	#: LIGHT-03-LENSE-BRACKET			Eorward	
Laser Cut Operation	LIGHT FIXTU	RE LENSE BRACKET			Back	
					QUIT	
				_	-	
				=		
		STD. HR. COST:	\$140.00	00		
TYPE: Process V STA	TUS: Scheduled \lor STD TIME/UN	T: 0.01384 HR(S) UN	ITS/HOUR: 72.24	39		
QTY. SCHEDULED: 10.0000 UOM:	ST	ART DATE/TIME: 07/28/2021	10:30 AM			
PREVIOUS: 0.0000		END DATE/TIME: 07/28/2021	10:42 AM			
PRODUCED: 9.0000		RUN HOURS: 0.20				
SCRAPPED: 1.0000		PARTS/HOUR: 45.0000				
BALANCE: 1.0000		PART COST: \$3.1111		_		
START DATE/TIME END DATE/TIME	HOURS QTY PRODUCED	SCRAPPED COMPLETE	APPRVD POSTED)		
		-		_		
				=		
MWR2						
						OVP



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7. After answering "Yes", the Production Transaction is displayed at the bottom of the screen:

WORK STATION: Global Edge Demo Server - Workstation PRODUCT CARD #: 1055 SEQ #: 1 Laser Cut Operation LIGHT FIXTURE LENSE BRACKET - Laser Cut Operation LIGHT FIXTURE LENSE BRACKET - Image: Status: Status: Status: Status: TYPE: Process STATUS: Scheduled STD TIME/LNIT: 0.01384 HR(5) UNITS/HOUR: 72.2439 QTV. SCHEDULED: 10.0000 UOM: STATT DATE/TIME: BIA -		<u>S</u> tart									
ARD #: 1057	SEQ #: 1	LASER-CU	т	PART #:	LIGHT-03-LENSE	-BRACKET				Einish	
aser Cut Operation				LIGHT FIXTURE L	ENSE BRACKET					Update	
										BOM	
										Process	
									N	C Program	ns
					STD, HR. (OST:		\$140.0000	D	ocuments	;
TYPE: Process	\sim	STATUS:	Scheduled ${\scriptstyle \lor}$	STD TIME/UNIT:	0.01384 HR(5) UNIT	S/HOUR:	72.2439		Notes	
TY. SCHEDULED:	10.0000	UOM:		START	DATE/TIME:	13,21				QUIT	
PREVIOUS:	0.0000			END	DATE/TIME:	1.(2)					
PRODUCED:					RUN HOURS:						
SCRAPPED:				P	ARTS/HOUR:						
BALANCE:	1.0000				PART COST:						
START DATE/TIME	END DAT	E/TIME	HOURS	QTY PRODUCED	SCRAPPED	COMPLETE	APPRVD	POSTED			
7-20-21 10.30 AM	07-28-21 10		0.20	5.0000	1.0000	165	110				

8. Select "QUIT > Transaction" option to display the following screen form and menu options:

ا 🖷 ا	WORK STAT	10N: Global Ed	lge Demo Server										-	
W	orkstation-Tr	ransaction											TR	NSACTIONS
												\sim		<u>N</u> ext
	MACH #:]	WORK DATE:	07/28/2021	Wednes	day				Previous
	JOB #		PART #		DESCRIPTION	HOURS	QTY PRODUCED	UNITS	APPR	VD	POSTED			Update
	1010	LIGHT-03-LENS	E-BRACKET	LIGHT FIXTURE	LENSE BRACKET	0.20	9.0000	each	No	\sim	No \sim			Manu
	SEQ #:	1 LASE	R-CUT]			_					view
										\sim	\sim			Approve
	SEQ #:								_					Post
										\sim	\sim			QUIT
	SEQ #:													
										\sim	\sim			
	SEQ #:							1						
	SEO #1									\sim	~			
	3LQ #.									~				
	SEO #:													
									1	\sim	\sim			
	SEQ #:													
										\sim	\sim			
	SEQ #:]								
			UNAPPROVED		APPROVED:	POS'	TED:] 1	TOTAL:					
								1				1		
MW	/R3											~		
Next D	Day													OVR:



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9. Select "*Approve*" option followed by the "*Post*" option to approve and post the Production, which will then display the following:

🐖 WORK STAT	10N: Global Edge Demo Server								- 0	×
Workstation-Tr	ransaction								TRANSAC	TIONS
								^	<u>N</u> ext	
MACH #:				WORK DATE: 0	7/28/2021	Wednesday			··· Previ	ous
JOB #	PART #	DESCRIPTION	HOURS	QTY PRODUCED	UNITS	APPRVD	POSTED		Upda	ate
1010	LIGHT-03-LENSE-BRACKET	LIGHT FIXTURE LENSE BRACKET	0.32	9.0000	each	No 💎	No \sim		Vie	
SEQ #:	1 LASER-CUT								view	•
						\sim	\sim		Appro	ove
SEQ #:									Pos	;t
						\sim	\sim		OU	σ
SEQ #:										
						\sim	\sim			
SEQ #:										
						\sim	\sim			
SEQ #:										
						\sim	\sim			
SEQ #:										
						\sim	\sim			
SEQ #:										
						\sim	\sim			
SEQ #:										
	UNAPPROVED:	APPROVED:	POST	ED:	т	OTAL:				
MWR3								\sim		
st Workstation T	Fransactions									OVR

5.3 – Production Dashboard

5.3 – Production Dashboard

These steps illustrate the capabilities provided by the *Global Edge* Production Dashboard for real-time monitoring of production.

Sample Production Orders

Once the *Global Edge* system downloads ERP Sales Orders / Job Orders and automatically builds more complete Job Orders, the process also includes the automatic generation of specific Production Orders within those Job Orders to be schedule and executed within specific Work Centers (Work Cells). The following are sample Production Orders that will illustrate the "*Smart Factory Shop Floor Integration*" capabilities of the *Global Edge* system.

Sample Production Orders

1001 SL-002-WRAP-325616-001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 1002 SL-002-WRAP-325616-0011 5.0000 EA 1008 1 1 1 2 5/24/201 5/24/201 1003 SL-003-CAB-BOT-5616-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1004 SL-015-FILL-PNL-1627-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/	Prod. Order #	Part Number	Qty.	UOM	Job #	WP #	List #	Seq. Trans #	Rel. Date	Sch. Date
1002 SLD-002-WRAP-325616-0001 5.0000 EA 1008 1 1 2 5/24/201 5/24/201 1003 SLD-003-CAB-BOT-5616-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1004 SLD-004-CAB-TOP-5616-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1005 SLD-015-FILL-PNL-1627-0001 5.0000 EA 1008 1 1 1 5/24/201	1001	SLD-002-WRAP-325616-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1003 SLD-003-CAB-BOT-5616-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1004 SLD-004-CAB-TOP-5616-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1005 SLD-015-FILL-PNL-1627-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1006 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1007 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1008 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1010 SLD-018-SPINE-LT-32-0001 5.0000 EA 1008 1 1 1 5/24/20 5/24/20 1011 SLD-018-SPINE-RT-32-0001 5.0000 EA 1008 1 1 1 5/24/202 5/24/20	1002	SLD-002-WRAP-325616-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1004 SLD-004-CAB-TOP-5616-0001 5.0000 EA 1008 1 1 5/24/201 5/24/201 1005 SLD-015-FILL-PNL-1627-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 1006 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1007 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 5/24/201 1008 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/201	1003	SLD-003-CAB-BOT-5616-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1005 SLD-015-FILL-PNL-1627-0001 5.000 EA 1008 1 1 1 5/24/201 5/24/201 1006 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 1007 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1008 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 5/24/201 1010 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/201 <	1004	SLD-004-CAB-TOP-5616-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1006 SLD-016-HORZ-DIV-55-0001 5.000 EA 1008 1 1 1 5/24/201 5/24/201 1007 SLD-016-HORZ-DIV-55-0001 5.000 EA 1008 1 1 2 5/24/201 5/24/201 1008 SLD-017-SPINE-CT-32-0001 5.000 EA 1008 1 1 1 5/24/201 5/24/201 5/24/201 1009 SLD-017-SPINE-CT-32-0001 5.000 EA 1008 1 1 1 5/24/201	1005	SLD-015-FILL-PNL-1627-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1007 SLD-016-HORZ-DIV-55-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1008 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 5/24/2021 1009 SLD-017-SPINE-CT-32-0001 5.0000 EA 1008 1 1 1 5/24/2021	1006	SLD-016-HORZ-DIV-55-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1008SLD-017-SPINE-CT-32-00015.0000EA10081115/24/20215/24/20211009SLD-017-SPINE-CT-32-00015.0000EA100811125/24/20215/24/20211010SLD-018-SPINE-LT-32-00015.0000EA100811125/24/20215/24/20211011SLD-018-SPINE-LT-32-00015.0000EA100811125/24/20215/24/20211012SLD-019-SPINE-RT-32-00015.0000EA100811125/24/20215/24/20211013SLD-019-SPINE-RT-32-00015.0000EA100811125/24/20215/24/20211014SLD-020-VERT-DIV-BOT-15-00015.0000EA100811115/24/20215/24/20211015SLD-020-VERT-DIV-BOT-15-00015.0000EA100811125/24/20215/24/20211016SLD-021-VERT-DIV-TOP-16-00015.0000EA100811125/24/20215/24/20211017SLD-001-BODY-325616-00015.0000EA10082115/29/20215/29/20211018SLD-001-BODY-325616-00015.0000EA10082135/29/20215/29/20211020SLD-001-BODY-325616-00015.0000EA10082145/29/20215/29/20211021SLD-0	1007	SLD-016-HORZ-DIV-55-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1009SLD-017-SPINE-CT-32-00015.0000EA10081125/24/20215/24/20211010SLD-018-SPINE-LT-32-00015.0000EA100811115/24/20215/24/20211011SLD-018-SPINE-LT-32-00015.0000EA100811115/24/20215/24/20211012SLD-019-SPINE-RT-32-00015.0000EA100811115/24/20215/24/20211013SLD-019-SPINE-RT-32-00015.0000EA100811125/24/20215/24/20211014SLD-020-VERT-DIV-BOT-15-00015.0000EA10081115/24/20215/24/20211015SLD-020-VERT-DIV-BOT-15-00015.0000EA10081115/24/20215/24/20211016SLD-021-VERT-DIV-TOP-16-00015.0000EA10081115/24/20215/24/20211017SLD-021-VERT-DIV-TOP-16-00015.0000EA10081115/24/20215/24/20211018SLD-01-BODY-325616-00015.0000EA10082115/29/20215/29/20211019SLD-01-BODY-325616-00015.0000EA10082135/29/20215/29/20211020SLD-01-BODY-325616-00015.0000EA10082145/29/20215/29/20211021SLD-01-BODY-325616-00015.0000<	1008	SLD-017-SPINE-CT-32-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1010SLD-018-SPINE-LT-32-00015.0000EA10081115/24/20215/24/20211011SLD-018-SPINE-LT-32-00015.0000EA100811125/24/20215/24/20211012SLD-019-SPINE-RT-32-00015.0000EA100811115/24/20215/24/20211013SLD-019-SPINE-RT-32-00015.0000EA100811125/24/20215/24/20211014SLD-020-VERT-DIV-BOT-15-00015.0000EA10081115/24/20215/24/20211015SLD-020-VERT-DIV-BOT-15-00015.0000EA100811125/24/20215/24/20211016SLD-021-VERT-DIV-TOP-16-00015.0000EA100811125/24/20215/24/20211017SLD-021-VERT-DIV-TOP-16-00015.0000EA100811125/24/20215/24/20211018SLD-001-BODY-325616-00015.0000EA10082115/29/20215/29/20211020SLD-001-BODY-325616-00015.0000EA10082135/29/20215/29/20211021SLD-001-BODY-325616-00015.0000EA10082145/29/20215/29/20211022SLD-001-BODY-325616-00015.0000EA10082145/29/20215/29/20211023SLD-001-BODY-325616-0	1009	SLD-017-SPINE-CT-32-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1011 SLD-018-SPINE-LT-32-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1012 SLD-019-SPINE-RT-32-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1013 SLD-019-SPINE-RT-32-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1014 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1015 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 <	1010	SLD-018-SPINE-LT-32-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1012 SLD-019-SPINE-RT-32-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1013 SLD-019-SPINE-RT-32-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1014 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1015 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 3 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.	1011	SLD-018-SPINE-LT-32-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1013 SLD-019-SPINE-RT-32-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1014 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1015 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1021 SLD-001-BODY-325616-0001 5.0000 <	1012	SLD-019-SPINE-RT-32-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1014 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1015 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 2 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021 5/29/2021	1013	SLD-019-SPINE-RT-32-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1015 SLD-020-VERT-DIV-BOT-15-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 2 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 2 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1021 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1023 SLD-001-BODY-325616-0001 5.0000	1014	SLD-020-VERT-DIV-BOT-15-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1016 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 1 5/24/2021 5/24/2021 1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/24/2021 5/29/2021 5/	1015	SLD-020-VERT-DIV-BOT-15-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1017 SLD-021-VERT-DIV-TOP-16-0001 5.0000 EA 1008 1 1 2 5/24/2021 5/24/2021 1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 2 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1021 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1022 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 5 5/29/2021 5/29/2021 1023 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 6 5/29/2021 5/29/2021	1016	SLD-021-VERT-DIV-TOP-16-0001	5.0000	EA	1008	1	1	1	5/24/2021	5/24/2021
1018 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 1 5/29/2021 5/29/2021 1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 2 5/29/2021<	1017	SLD-021-VERT-DIV-TOP-16-0001	5.0000	EA	1008	1	1	2	5/24/2021	5/24/2021
1019 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 2 5/29/2021	1018	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	1	5/29/2021	5/29/2021
1020 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 3 5/29/2021 5/29/2021 1021 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 5/29/2021 1022 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 5 5/29/2021 5/29/2021 1023 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 6 5/29/2021 5/29/2021	1019	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	2	5/29/2021	5/29/2021
1021 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 4 5/29/2021 5/29/2021 1022 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 5 5/29/2021 5/29/2021 5/29/2021 1023 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 6 5/29/2021 5/29/2021	1020	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	3	5/29/2021	5/29/2021
1022 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 5 5/29/2021 5/29/2021 1023 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 6 5/29/2021 5/29/2021 5/29/2021	1021	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	4	5/29/2021	5/29/2021
1023 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 6 5/29/2021 5/29/20	1022	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	5	5/29/2021	5/29/2021
	1023	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	6	5/29/2021	5/29/2021
1024 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 7 5/29/2021 5/29/20	1024	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	7	5/29/2021	5/29/2021
1025 SLD-001-BODY-325616-0001 5.0000 EA 1008 2 1 8 5/29/2021 5/29/20	1025	SLD-001-BODY-325616-0001	5.0000	EA	1008	2	1	8	5/29/2021	5/29/2021

Shop Floor Data Collection / Dashboard Workflow Diagram

Global Edge Integrated Manufacturing provides the capabilities to drive and record production on a real-time basis using the information generated throughout the integrated factory enterprise.



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Workflow Steps

1. Select the "Manufacturing > Shop Dashboard" option on the Global Edge main menu:



2. This will display the Shop Dashboard screen and following menu options:

HOP DASHB	OARD: Global E	dge Demo Serve	er									-	
op-Dashboard									-	- JOB ST/	ATUS		Loc
DC. #:	1 CORP. H	EADOUARTERS /	MANUFACTURIN	5	DATE: 07/14/	2021 133 WED	NESDAY	MODE: WEE	KLY	Pending	Hold		
PT. #:		. ,								✓ Issued	Finish		Se
C. #:										Scheduled	Canceled		
CH #:					PROCES	S COUNT:	155	SELECTED:	0	WIP	All		<u> </u>
L PROCESS		DESCRIPTI	ON									~	<u>]</u>
3D-PRINT		3D Printing	Operation										D
AMADA-PU	INCH	Amada Pun Assembly C	ching Operation										We
BELT-SANE)	Belt Sand	perauori										
BEND		Press Brake	Bend Operation										Mo
CORD-TWI	IST	Twist Fiber	into Cord										<u>N</u> e
		Corner Ben	oing Operation										Dr
СЛТ-ТО-ГЕ	NGTH	Cut-to-Len	gth Operation										
DEBURR		Deburr										~	Re
EEK ENDING	07-17-2021	07-24-2021	07-31-2021	08-07-2021	08-14-2021	08-21-2021	08-28-2021	09-04-2021	09-11-2021	09-18-2021	09-25-2021	10-02-2021	Q
JOBS:	0	0	0	0	0	0	0	0	0	0	0	0	
OD ORDERS:	0	0	0	0	0	0	0	0	0	0	0	0	
PACITY HRS:	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	0.00	
QUIRED HRS:	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
AILABLE HRS:	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	2244.00	0.00	
T CAPACITY:	404.50	404.50	404.50	404.50	404.50	404.50	404.50	404.50	404.50	404.50	404.50	0.00	
T AVAIL HRS:	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	2648.50	0.00	



3. Select "Location" option and enter Location, Department, Work Center and Machine Tool Number followed by "Select" option to select manufacturing process for selected machine tool to view current production for:

🐺 SHOP DASHBOARD: Global Edge Demo Server	-	
Shop-Dashboard		MONITORING
Destrus		Location
		All
DEPT. #: 8 MANUFACTURING		Select
W.C. #: 3 LASER CUTTING		Clear
MACH ≠: 1123 Cincinnation CL900 Laser PROCESS COUNT: 2 SELECTED: 1 ✓ WIP All	_	
INC. PROCESS DESCRIPTION	^	2005
AASH-CUI Laser Cut Laser Cut Wesp(077) Laser Cut Operation		Daily
		<u>W</u> eekly
		Monthly
		<u>N</u> ext
		··· Previous
		Reports
	_	OUIT
	-	
PROD ORDERS: 13 9 4 0 0 0 0 0 0 0 0 0 0	0	
CAPACITY HRS: 88.00 88.0	.00	
REQUIRED HRS: 2.23 6.51 5.31 0.00 0.00 0.00 0.00 0.00 0.00 0.00 0		
AVAILABLEHRS: 85.77 81.49 82.69 88.00 88.00 88.00 88.00 88.00 2.23		
OT CAPACITY: 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 16.00 10.00 16.00		
OT AVAIL HRS: 101.77 97.49 98.69 104.00 104.00 104.00 104.00 104.00 104.00 -2.23		
NO1		
Select Processes to Indude		OVR:



5.4 – Shop Floor Data Collection / IoT (Internet of Things) Connectivity

Global Edge Integrated Manufacturing provides the capability to integrate directly with the shop floor machine tools utilizing IoT (Internet of Things) connectivity and store this information in the **"Engineering & Manufacturing Data Warehouse"**. The production counts collected from the machine tool PLCs are integrated directly with the Production Job Orders maintained in **Global Edge** that appear real-time in the Production Dashboard and are uploaded to ERP to provide full visibility of the manufacturing shop floor with Smart Factory Shop Floor Industry 4.0 integration capabilities.

Smart Factory Shop Floor Integration



Real-Time Shop Floor Data Collection / Dashboard



5.5 – Automated Production ERP Upload

These steps illustrate the upload of shop floor production data back to an ERP system:

Workflow Steps

1. Launch the *Global Edge ERP Interface* to display the following screen:

🔯 Global Edge ERP Interface			_	
File View Tools Help				
Connections		Ор	erations Log:	None 💌
# Description	Connection Type	Database Type	Enabled	Connected
1 Global Edge Connection	Database	Informix	Yes	Yes
2 Web Portal Connection	Database	SQL	Yes	No
4 MES / Schedule Connection	n XMI	File	Yes	Yes
5 External Quoting Database	Database	SQL	Yes	No
, Timing	Enable	Connect	Disable	Disconnect
Name Maps	Events Occurrences	Last Occurrence		Status
Real-Time Transfers 2	1 0	1/1/0001 12:00:	00 AM	Active
Setup Transfers 3	1 0	1/1/0001 12:00:	00 AM	Active
Once Daily 0	1 0	1/1/0001 12:00:	00 AM	Active
Maps			Transfer	Activate
Maps Sou	irce	Last Tra	nsfer	Transfers
Generic ERP Download Ger	neric ERP Connection	9/1/202	3 12:00:00	0
Generic ERP Upload Ger	neric ERP Connection	9/1/202	3 12:00:00	0
Generic Hot Order Downlo Ger	heric ERP Connection	9/1/202	3 12:00:00	0
MES / Schedule Upload ME	S / Schedule Connection	9/1/202	3 12:00:00	0
		57 17 202		
Operation: Column Tra	instation loading Comple	te		Run Source
Logged in as: 'Idc' since: Monday,	April 01, 2024 18:43:30		Database:	globaledge

2. Highlight "Generic ERP Upload" data map followed by "Transfer" option to initiate the upload of shop floor production data back to ERP.

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Demo Section 6: Integrated Financials

Global Edge[®] *Engineering Assistant* provides full-functioned accounting / financial management capabilities that are directly integrated with quoting, sales, engineering, manufacturing, and supply chain. The sections that illustrate these capabilities include:

- 6.1 Order Entry / Invoicing / Accounts Receivable
- 6.2 Accounts Payable / Purchase Order
- 6.3 Inventory Management
- 6.4 General Ledger / Bank Account
- 6.5 Payroll Time & Attendance

Section 6: Integrated Financials Overview

The following is an overview of Section 6 and what is illustrated within each of the steps.

- <u>6.1 Order Entry / Invoicing / Accounts Receivable</u>: The steps within this section illustrate how the Global Edge software provides the generation of sales orders, invoices and accounts receivable transaction which include:
 - Sales Order Generation
 - o Invoicing / Billing
 - Accounts Receivables / Collection / Aging
- <u>6.2 Accounts Payable / Purchase Order</u>: The steps within this section illustrate how the *Global Edge* software processes accounts payable transactions and the generation of purchase orders which include:
 - Accounts Payable Management
 - Purchase Order Generation
- <u>6.3 Inventory Management</u>: The steps within this section illustrate how the *Global Edge* software manages the inventory management process which include:
 - Inventory Maintenance
 - Shipping / Receiving
 - Picking & Stocking
- <u>6.4 General Ledger / Bank Account</u>: The steps within this section illustrate how the *Global Edge* software processes general ledger / bank account transactions which include:
 - G.L. Accounts / Transactions / Bank Account
 - Fix Assets Management
 - Month / Period / Year End Closing
- <u>6.5 Payroll Time & Attendance</u>: The steps within this section illustrate how the *Global Edge* software manages and processes payroll time and attendance which include:
 - Employee Payroll
 - Payroll Set-Up
 - Time & Expense Entry



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6.1 – Order Entry / Invoicing / Accounts Receivable

This step illustrates the order entry, invoicing, and accounts receivable process.

Workflow Steps

1. Select "Financials" on the Global Edge main menu:



2. Select "Customer Management > Order Entry / Invoicing / A.R." on the Customer Management menu:

Customer-Maintenano	e						Add
ID #:	REF #:		PHONE:			EXT:	Eind
			FAX:				Next
			LOC:				Dentis
			SALES REP:				Previo
			TERRITORY:				Goto
			SERVICE ZONE:				Update
			CUSTOMER TYPE:				Orders
			LEAD SOURCE:				
			ACTIVE?:	~	COMMISSION ?:	~	Invoice
В	ILLING ADDRESS		TAXABLE ?:	~	TAX RATE:		Receivab
			RESALE #:			FINANCE?: V	opTions
			RESALE EXPIRATION:		11.34	DOC:	Delete
			PAYMENT TERMS:				Delete
			PRICE METHOD:		V FAC	TOR:	More
			PRICE LIST:				Contrac
			BALANCE METHOD:		~		Work Oue
			STATUS:		~		
LAST SALE:	11.23	YTD SALES:			CREDIT LIMIT:		QUI
NU. SALES:	h Y d	TOTAL SALES:	B X M		BEGIN MONTH:		
DATE ADDED:	R&3	DATE MODIFIED:	843		BALANCE:		
UST							
New Customer							



3. Select "*Find > Customer*" option and retrieve CUSTOMER #: "1001" which will display the following customer record and menu options:

Justomer-Maintenance				Add
ID #: 1001 REF #: ABC-MFG	PHONE:	414-555-110	0 EXT: 101	··· Eind
BC MANUFACTURING	FAX:	414-555-110	5	Next
obert Smith, V.P. of Engineering	LOC: 1	CORP. HEAD	QUARTERS / MANUFACTURING	
i000 West Industrial Way	SALES REP:	RDS	Robert D. Smith	Previous
	TERRITORY:	US1	USA - CENTRAL	Goto
Nilwaukee WI 55555	SERVICE ZONE:			Update
Inited States of America	CUSTOMER TYPE:	MFR	MANUFACTURER	Orders
	LEAD SOURCE:	TRS	TRADE SHOW	Gracia
	ACTIVE?:	Yes 🗸	COMMISSION?: No	Invoices
BILLING ADDRESS	TAXABLE?:	Yes 🗸	TAX RATE: 0.0 0.0	<u>R</u> eceivable
BC MANUFACTURING	RESALE #:	RESALE NUM	01 FINANCE?: No ~	opTions
	RESALE EXPIRATION:		LL회 DOC:	Delete
i000 West Industrial Way	PAYMENT TERMS:	N30	NET 30 DAYS	Delete
3 C 3 C	PRICE METHOD:	Cost-Plus	FACTOR: 1.5	More
tilwaukee WI 55555	PRICE LIST:			Contracts
Inited States of America	BALANCE METHOD:	Open-Item	~	Work Oueu
	STATUS:	Credit-OK	~	
LAST SALE: 04/01/2022	D SALES: \$4125.00		CREDIT LIMIT: \$10000.00	QUII
NO. SALES: TOTA	L SALES: \$4125.00		BEGIN MONTH: \$0.00	
DATE ADDED: 04/01/2022 #13 DATE M	ODIFIED: 04/01/2022 변화		BALANCE: \$0.00	
(#1of1)				

4. Select "Orders > Update" option to retrieve ORDER #: "1003" on the following screen form:

🖷 ORDER EN	ITRY: Global E	dge Windows Demo S	erver						_		×
Sales-Order-L	ist									01	
Select Order	to Update, the	n Press [OK]:								OK	
CUST #:	1001	REF #: ABC-MFG	ABC MANUFACTURING		Robert Smith, V.P.	. of Engineering			1	Cance	el
ORDER #	DATE	CUSTOMER PO	NOTES	PROJ #	JOB #	TOTAL	STATUS	FILLED			
1003	11/10/23	ABC-1003	Sales Order for Demonstration Parts (ERP [1006	\$0.00		No			
1002	11/10/23	ABC-1002	Sales Order for Light Fixture (ERP Downloa		1005	\$0.00		No			
1001	11/10/23	ABC-1001	Sales Order for Cabinet Body (ERP Downloa		1004	\$0.00		No			
					-						
					-						
					-						
OID1											
0101											
											OVR .



5. This will display the following screen form and menu options:

ORDER EINT	Kr: Global Edge Willdows Dento Server	_	U
Order-Header	Entered/Voided-By Service-Order		ORDER
		•	Update
CUST #:	1001 REF #: ABC MANUFACTURING		Items
ORDER #:	1003 REF #: ORDER TYPE: Order V ORDER STATUS: V		Release
RDER DATE:	11/10/2023 KM ORDER FILLED?: No \sim PRINTED: No \sim		Address
CLOSE DATE:	부처럼 PRICE METHOD: Cost-Plus V FACTOR: 1.0		Drink
REV #:	REV DATE: 134		Print
QUOTE #:	1001 Fabricated Sheet Metal Parts PRICE LIST #: 1 STANDARD PRICE LIST		Status
P.O. #:	ABC-1003 CONSIGNMENT?: No V SHIP WEIGHT: 0.0 bs		shipmenT
REP:	RDS Robert D. Smith PARTIAL SHIPMENT?: Yes		schedult
CONTACT #:	1		Ontine
PRIORITY:	Normal V PAYMENT TERMS: N30 NET 30 DAYS		Options
SHIP VIA:	TRK VIA TRUCK TAXABLE: No V TAX RATE: 0.0		QUIT
SHIP BY:	11/24/2023 [13] FOB: Shipping Point % TAXABLE: 0.0		
OCATION #:	1 CORP. HEADQUARTERS / MANUFACTURING NET CHARGE: \$0.00		
DEPT. #:	FREIGHT: \$0.00		
W.C. #:	SALES TAX: \$0.00		
PROJECT #:			
JOB #:	1006 ORDER TOTAL: \$0.00		
NOTES:	Sales Order for Demonstration Parts (ERP Download)		
כתוכ			

6. Select "Items" option to display the following screen form and menu options:

					Add
CUST	T #: REF #:				Update
ORDEF	R #:				View
TM #	PART NUMBER	PRICE	QTY	EXTENDED	Delete
1	DEM-01-APRON	\$0.0000	15.0000	\$0.00	Delete
2	DEM-02-LOAD-CTR-BOX	\$0.0000	20.0000	\$0.00	OUIT
3	DEM-03-BOTTOM-DLH	\$0.0000	25.0000	\$0.00	
4	DEM-04-HOUSING	\$0.0000	30.0000	\$0.00	
5	DEM-05-PANEL	\$0.0000	35.0000	\$0.00	



7. Select "*Update*" option to retrieve first item for the attached Sales Order and make any necessary changes to Sales Order Item, the select "*OK*" to option to continue:

					ОК
odate Order Item, then Press	; [OK]:				Cancel
UST #:	REF #:				EE Quantitu
DER #:					-5-Quartury
ART #: DEM-01-APRON		ITEM #: 1	REV #:		F6-Part #
RON			LIST:	\$0.0000	F7-Method
			STANDARD:	\$190.1969	F8-Ord, Ot
			QUOTE:	\$247.2560	
			ROLL-UP:	\$190.1969	F9-Location
			ON-HAND:	0.0000	F10-Availabil
			TAXABLE:	No V	
METHOD:	Cost-Plus ~	PRICE FACTOR: 1.2	PART OK:	Yes 🗸	
LIST #:	1 STANDARD PR	CE LIST			
DATA SET:				WARRANTY REP: No ~	
	QUANTITY	UOM	UNIT PRICE	EXTENDED	
ORDER:	15.0000	EA	\$0.0000	\$0.00	
WEIGHT:	0.0	lbs	EXTENDED WGHT:	0.0	
	DISCOUNT:	%	\$0.0000		
COMM. METHOD:	None V RAT	E: 0.0 %	AMOUNT:	\$0.00	
OVR/UND:	0.0 / 0.0	0 PHASE #:	SHIPPED:	0.0000	
REQ'D:	11/24/2023	PACK #:	B. ORDER:	0.0000	
MFR. LOCATION #:	1 CORP. H	EADQUARTERS / MANUFACTURIN	G	í.	
DEPT. #:					
W.C. #:					

8. Select "QUIT > QUIT" option to return to "Order-Header" screen:

												Update
CUST #:	1001		REF #:		ABC MA	NUFACTUR	ING					Items
ORDER #:	1003	REF #:		OF	RDER TYPE:	Order	\sim	ORDER	STATUS:		\sim	Release
RDER DATE:	11/10/2023	132		ORDE	ER FILLED?:	No	\sim	P	RINTED:	No	\sim	Address
CLOSE DATE:	-	1.Xa		PRIC	E METHOD:	Cost-Plus	\sim		FACTOR	u 👘	1.0	
REV #:		REV DAT	E:	11.3.2								Print
QUOTE #:	1001	Fabricat	ed Sheet Meta	PR PR	ICE LIST #:	1	STANDARI	PRICE LI	ST			Status
P.O. #:	ABC-1003			CONS	IGNMENT ?:	No \sim	SHIP V	/EIGHT:	0.0) lbs		shipmen
REP:	RDS Rober	t D. Smith		PARTIAL S	SHIPMENT ?:	Yes \lor						schedul
CONTACT #:	1											Scheddi
PRIORITY:	Normal ~				PAYMEN	IT TERMS:	N30	NET 30 D	AYS			Options
SHIP VIA:	TRK VIA TR	RUCK				TAXABLE:	No 🗸		TAX RATE	•	0.0	QUIT
SHIP BY:	11/24/2023	III FO	B: Shipping P	Point	%	TAXABLE:		0.0				
OCATION #:	1	CORP. H	EADQUARTER	S / MANUFACT	URING		NET	CHARGE:			\$0.00	
DEPT. #:								FREIGHT:			\$0.00	
W.C. #:							SA	LES TAX:			\$0.00	
PROJECT #:						-						
JOB #:	1006						ORDE	R TOTAL:			\$0.00	
NOTES:	Sales Order for	Demonstra	tion Parts (ER	P Download)								



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9. Select "*Release*" option to release Sales Order, then select "*QUIT*" twice to return to "*Customer-Maintenance*" screen. Select "*Invoices*" option to display following screen form and menu options:

nvoice-List											Invoice
JST #:	1001	REF #:	ABC-MFG	A	BC MANUFACTURING		Robert Smith,	V.P. of Engineering			Cred
IV/RMA# T	YPE	DATE	ORDER #	PO #	PROJECT #	JOB #	DESCRIPTION	AMOUNT	POST	▲	
1002 I	WOICE	10/17/2018			1013	1002	Ulterior Weldment Invoice	\$1239.30 \$4125.00	Cled		Load
1001 1	WOICE	03/12/2018					Product Redesign Work	\$4125.00	Circ		Updat
											Eilter
											View
											Delet
											··· Print
											<u>p</u> osT
										₹	QUI
										Ŧ	

10. Select "Load" option to select Sales Order to load into Invoice:

🐺 ORDER ENTRY: Global Edge Demo Server	-		×
Sales-Order-List			_
Select Order to Invoice, then Press [OK]:		OK	
CUST #: 1003 REF #: XYZ-INC XYZ INCORPORATED Robert Chandler, President		Cancel	
ORDER # DATE CUSTOMER PO NOTES PROJ # JOB # TOTAL STATU	JS FILLED		
1007 09/01/19 Sales Order for Transformer / Components 1006 1013 \$23685.00 Released	No		
		C	DVR



11. When prompted to "Load Order Into Invoice?" answer "Yes" to load Sales Order into Invoice, which will display following screen form:

— (ORDER E	NTRY: Global Edge Demo Server	-		×
Inv Se	voice-Cor lect Invo	nfiguration vice Configuration, then Press [OK]:		OK	
C	NFG #	DESCRIPTION	_	Cano	el
	1	Standard			
	2	PDF			
	D2				
	~~				
					OVR

12. After selecting "Invoice Configuration", the following screen form and menu options are displayed:

CUST #:	1003	R	EF #:	1003			XYZ INCOR	PORATED						Items
INVOICE #:		1003	0	ATE:	04/16/20	21 14	REF:				BN:		0	Ship-Addr
ORDER #:		1007	0	ATE:	09/01/20	19 🖽	REP:	RDS	Robert	D. Sm	ith			Bill-Addre
LOCATION #:		1	CORP	. HEAD	QUARTERS	/ MAN	UFACTURIN	IG						-
DEPARTMENT #:											POSTED:	No	\sim	Date
W.C. #:											PRINTED:	No	\sim	<u>P</u> rint
PROJ #:		1006					TAXABLE:	No 🖂	R/	ATE:	0.0		0.0	X-Shipme
JOB #:		1013					METHOD:	Cost-Plu:	s	\sim	FACTOR:		1.5	Configura
AR NOTE:	Sales O	rder for	Transfo	rmer /	Co				PO #:					comgara
SHIP WEIGHT:			0.0					NET	CHARGE:					Notes
SHIP VIA:								F	REIGHT:			\$0.00		posT
PAY TERMS:	N30	NET 30	D DAYS					SA	LES TAX:					Y-Docume
FOB LOCATION:	Shipping	g Point											-	Bouice
SHIP DATE:	04/16/2	2021	2					INVOIC	E TOTAL:			\$0.00		Kevise
SERVICE DATES:	12/31/1	1899 🔛	a TO:	12/3	81/1899 🔛	3								QUIT



13. Select "Items > Fill > Order" option which will display the following screen form and menu options:

ORDER	ENTRY: Global Edge Demo Server				-		×
tem-List						INVOICE	FILL
					^	<u>O</u> rder	r
CUST #	#: REF #:					Shippe	ed
TM #	PART NUMBER	PRICE	QTY	EXTENDED		QUIT	г
1	DEMO-TRANSFORMER	\$2724.0000					
2	DEMU-I KAUSE OKINEK (* AU	\$236.6230					
ORDA					j		

14. Select "Update" option and select Invoice Item to display the following screen form and menu options:

Enter Invoice Item Information, then Press [OK]: CUST #: 1003 REF #: YYZ-INC YYZ INCORPORATED INVOICE #: 1003 Sales Order for Transformer / Co PART #: DEMOSTRANSFORMER ACCT #: 411300 -SALES: OTHER ORDER ITEM #: 1 ACCT #: 411300 -SALES: OTHER ORDER ITEM #: 1 Three Phase Transformer METHOD: Cost-Plus V FACTOR: 1.0 PRICE LIST: 1 STANDARD PRI LIST: #2724.0000 GUOTE: \$2224.0000 WARRANTY - DAYS: PIND DATE: 2/31/1899 IN ROLL-UP: \$1816.0000 TAXABLE: No V VARRANTY - DAYS: OTHER ORDER ITEM #: 0.0 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$30.0000 \$21092.00 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % S0.0000 \$30.00 COMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #: ROW TYPE: Item V WORK PACK #: 0 COMM	Invoice-Item-Edit											_
CUST #: 1003 REF #: YYZ-INC YYZ INCORPORATED INVOICE #: 1003 Sales Order for Transformer / Co F6-Discou PART #: DEMO-TRANSFORMER INVOICE ITEM #: 1 ACCT #: 411300 -SALES: OTHER ORDER ITEM #: 1 Three Phase Transformer METHOD: Cost-Plus V PRICE LIST: 1 STANDARD PRI F9-Quantit VIARRANTY - DAYS: END DATE: 2/31/1899 NA ROLL-UP: 5 1816.0000 VUARRANTY - DAYS: END DATE: 2/31/1899 NA ROLL-UP: 5 1816.0000 SHIP WEIGHT: 815.0 bs EXTENDED S1.00 50.00 COMM. METHOD: Manual \vee RATE: % COMMISSION AMOUNT: 0.0 % 0.0000 \$ 0.00 COMM. METHOD: Manual \vee RATE: % COMMISSION AMOUNT: 0.0 \$ 0.00 \$ 0.00 COMM. METHOD: Manual \vee RATE: % COMMISSION AMOUNT: 0.0 \$ 0.00 \$ 0.00 COMM. METHOD: Manual \vee RATE: % COMMISSION AMOUNT: 0.0 \$ 0.00 \$ 0.00 COMB <	Enter Invoice Ite	m Information, th	nen Press [Oł	d:							ОК	_
INVOICE #: 1003 Sales Order for Transformer / Co PART #: 05MO-TRANSFORMER ACCT #: 411300 -SALES: OTHER ORDER ITEM #: 1 Three Phase Transformer METHOD: Cost-Plus V FACTOR: 1.0 PRICE LIST: 1 STANDARD PRI UIST: 82724.0000 UIST: 82724.0000 VARRANTY - DAYS: PIND DATE: 2/31/1899 N/A ROLL-UP: 51816.0000 WARRANTY - DAYS: PIND DATE: 2/31/1899 N/A ROLL-UP: 51816.0000 TAXABLE: No V QUOTE: 52274.0000 STANDARD: 51816.0000 QUOTE: 52274.0000 S1816.0000 COMM. METHOD: Manual V RATE: % COMMISSION AMOUNT: 0.0 PHASE #: ROW TYPE: Item V WORK PACK #: 0 CORDB	CUST #:	1003	REF #:	XYZ-INC		XYZ INCOF	PORATED				Cano	el:
PART #: DEMO_TRANSFORMER INVOICE ITEM #: 1 ACCT #: 111300 -SALES: OTHER ORDER ITEM #: F8-Descript Three Phase Transformer METHOD: Cost-Plus Image: Cost-Plus F8-Descript Three Phase Transformer METHOD: Cost-Plus Image: Cost-Plus F8-Descript Three Phase Transformer METHOD: Cost-Plus Image: Cost-Plus F8-Descript PRICE LIST: 1 STANDARD PRI: 1 STANDARD PRI: F9-Quantit UST: S2224.0000 S1816.0000 QUOTE: S2224.0000 F10 WARRANTY - DAYS: END DATE: 12/31/1899 11/3 ROLL-UP: S1816.0000 F10 INVOICE: 8.0000 each \$22724.0000 \$2192.00 S100 S0.00 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 % \$0.000 \$0.00 COMM. METHOD: Manual \word RATE: % COMMISSION AMOUNT: Image: S10,000 \$0.00 COMM. METHOD: Manual \word RATE: % COMMISSION AMOUNT: Image: S10,000 \$0.00 COMM K PACK	INVOICE #:	1003		Sales Order for	Transfo	rmer / Co					F6-Disc	oun
ACCT #: 411300 -SALES; OTHER ORDER ITEM #: F8-Descript Three Phase Transformer METHOD: Cost-Plus Image: Second s	PART #:	DEMO-TRANSFO	RMER				I	NVOICE IT	EM #:	1	F7-Iter	m #
Three Phase Transformer METHOD: Cost-Plus FACTOR: 1.0 FACTOR: 1.0 PRICE LIST: 1 STANDARD PRICE F10 LIST: STANDARD: SIBI6.0000 SIBI6.0000 SIBI6.0000 WARRANTY - DAYS: END DATE: \$2/31/1899 RAIL ROLL-Pr: SIBI6.0000 WARRANTY - DAYS: END DATE: \$2/31/1899 RAIL No SIBI6.0000 WARRANTY - DAYS: END DATE: \$2/31/1899 RAIL No SIBI6.0000 WORKPACK: B15.0 Bo EXTENDED WEHT: 0.0 SHIP WEIGHT: 815.0 Bo EXTENDED WEHT: 0.0 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #: WORK PACK #: WORKPACK #: EXTEMPENT Tem NORDE DRDB B150 B150 B150 B150 B150 B150 B150	ACCT #:	411300	- SALES: O	THER				ORDER IT	EM #:		F8-Descr	ripti
FACTOR: 1.0 PRICE LIST: 1 STANDARD PRI F10 LIST: 512724.0000 QUOTE: 51316.0000 QUOTE: 522724.0000 WARRANTY - DAYS: END DATE: LIST: S1316.0000 QUARTITY UOM UNVOICE: 8.0000 QUANTITY UOM UNVOICE: 8.0000 S151.0 bs END UM S12724.0000 S2724.0000 521792.000 SHIP WEIGHT: 8.15.0 DISCOUNT: 0.0 0.0 % S0.0000 \$0.000 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #: WORK PACK #:	Three Phase Trar	sformer					METHOD:	Cost-Plus		\sim		
PRICE LIST: 1 STANDARD PRI F10 LIST: \$2724.0000 LIST: \$2724.0000 QUOTE: \$31816.0000 QUOTE: \$2724.0000 QUARTIY: END DATE: \$2724.0000 \$1816.0000 WARRANTY - DAYS: END DATE: \$2724.0000 \$21792.000 UWARRANTY - DAYS: END DATE: \$2724.0000 \$21792.000 SHIP WEIGHT: 815.0 Bis EXTENDED WGHT: 0.0 SHIP WEIGHT: 815.0 Bis EXTENDED WGHT: 0.0 OMM. METHOD: Manual ∨ RATE: % COMMISSION AMOUNT: ````````````````````````````````````							FACTOR:	1	.0		F9-Qua	ntit
LIST: \$2724,0000 STANDARD: \$1816,0000 QUOTE: \$2724,0000 QUOTE: \$2724,0000 QUOTE: \$2724,0000 TAXABLE: No \ QUANTITY UOM UNIT PRICE EXTENDED INVOICE: 8,0000 each \$2724,0000 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0,0000 S0.000							PRICE LIST:	1	STAN	DARD PRI	F10)
STANDARD: \$1816.0000 QUOTE: \$2724.0000 QUOTE: \$2724.0000 WARRANTY - DAYS: END DATE: 12/31/1899 INVOLCE: 8.0000 each \$2724.0000 INVOLCE: 8.0000 each \$2724.0000 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0.0000 \$0.000 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: Imm WORK PACK #:							LIST:		\$27	724.0000		
QUOTE: \$2724.0000 WARRANTY - DAYS: END DATE: \$12/31/1899 RALL-UP: \$1816.0000 TAXABLE: No							STANDARD:		\$18	316.0000		
WARRANTY - DAYS: END DATE: 12/31/1899 NAI ROLL-UP: \$1316.0000 TAXABLE: No ~ UOMULTIY UOM UNIT PRICE EXTENDED INVOICE: 8.0000 each \$2724.0000 \$21792.000 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$30.0000 \$30.000 OMM. METHOD: Manual ~ RATE: % COMMISSION AMOUNT: PHASE #: ROW TYPE: Item WORK PACK #: DRD8							QUOTE:		\$27	724.0000		
TAXABLE: No v QUANTITY UOM UNIT PRICE EXTENDED INVOICE: 8.0000 each \$2724.0000 \$21792.000 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0.0000 \$50.000 OMM. METHOD: Manual v RATE: % COMMISSION AMOUNT: PHASE #: ROW TYPE: Item WORK PACK #: DRD8	WA	RRANTY - DAYS:		END DATE:	12/31/	1899	ROLL-UP:		\$18	816.0000		
QUANTITY UOM UNIT PRICE EXTENDED INVOICE: 8.0000 each \$2724.0000 \$21792.00 SHIP WEIGHT: 815.0 ibs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0.000 \$0.000 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #:							TAXABLE:	No 🗸				
INVOICE: 8.0000 each \$2724.0000 \$21792.00 SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0.0000 \$0.000 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #:		QUANT	TTY	UOM		UN	IT PRICE	E	TENDE	D		
SHIP WEIGHT: 815.0 bs EXTENDED WGHT: 0.0 DISCOUNT: 0.0 % \$0.000 \$0.000 OMM. METHOD: Manual RATE: % COMMISSION AMOUNT:	INVOICE:		8.0000	each			\$2724.0000		\$2	21792.00		
DISCOUNT: 0.0 % \$0.000 \$0.00 OMM. METHOD: Manual V RATE: % COMMISSION AMOUNT: PHASE #: ROW TYPE: Item V WORK PACK #: DRDB	SHIP WEIGHT:		815.0	lbs		EXT	ENDED WGHT:			0.0		
OMM. METHOD: Manual RATE: % COMMISSION AMOUNT: PHASE #: ROW TYPE: Item WORK PACK #: ROW TYPE: Item			DISCOUNT:	0.0	%		\$0.0000			\$0.00		
PHASE #: ROW TYPE: Item	OMM. METHOD:	Manual \sim	RATE:		%	COMMIS	SION AMOUNT:					
WORK PACK #:	PHASE #:						ROW TYPE:	Item		\sim		
DRDB	WORK PACK #:											
ORDB												

15. Select "**OK**" option when done editing Invoice Item, then select "**QUIT**" twice to return to "**Invoice-List**" screen form and menu options:

ORDER ENTRY: Global Edge Demo Server		-		×
Invoice-List			INVOIC	ES
			Inva	pice
CUST #: 1003 REF #: XYZ-INC XYZ INCORPORATED Robert Chandler,	, President		Cre	dit
INV/RMA# TYPE DATE ORDER # PO # PROJECT # JOB # DESCRIPTION #	AMOUNT POS	r ^	⊆op	рY
1003 INVOICE 04/16/2021 1007 1006 1013 Sales Order for Transfor	\$23685.00 No		Loa	ad
			Upda	ate
			Eilt	er
			<u>V</u> ie	w
			Dele	ete
			··· Prin	nt
		~	pos	sT
<		>	QU	IT
ORD8				
ad Order into Invoice				OVR

16. Select "Post" option and answer "Yes" to "Are All Invoices & Credit Memos Correct?" and "Yes" to "Post Through to General Ledger" which will display the following screen once the posting process is complete:

ORDER ENTRY	Global Edge Demo Server	_		×
AR-Adjustments		AR Posting C	ompleted, I	Press
		Re	eturn	
CUST ID #:				
TRANS DATE:	1.12			
ACCOUNT #:				
BANK ACCT:				
INVOICE #:	DEBIT:			
CHECK #:	CREDIT:			
SALES REP:	PAYMENT:			
	DISCOUNT:			
	CLEARED:			
DESCRIPTION:	TRANS. TYPE:			
	POSTED:			
ARC6				
				OVR .::



17. Select "Return" option followed by "QUIT" to return to "Customer-Maintenance" screen:

ORDER ENTRY: Global Edge Demo Server		-	
Customer-Maintenance			CUSTOMER
			<u>A</u> dd
ID #: 1003 REF #: XYZ-INC	PHONE:	333-455-2100 EXT: 120	Eind
XYZ INCORPORATED	FAX:	333-455-2101	··· Next
Robert Chandler, President	LOC: 1	CORP. HEADQUARTERS / MANUFACTURING	
4000 North Gateway Blvd.	SALES REP:	JEJ James E. Jones	··· Previous
	TERRITORY:	US3 USA - SOUTHEAST	<u>G</u> oto
Johnson City MO 77777	SERVICE ZONE:		Update
USA	CUSTOMER TYPE:	MFR MANUFACTURER	Orders
	LEAD SOURCE:	CCL COLD CALL	
	ACTIVE?:	Yes V COMMISSION?: No V	Invoices
BILLING ADDRESS	TAXABLE?:	Yes 🗸 TAX RATE: 0.0 0.0	Receivables
XYZ INCORPORATED	RESALE #:	RESALE NUM 03 FINANCE?: No V	opTions
	RESALE EXPIRATION:	DOC:	Delete
4000 North Gateway Blvd.	PAYMENT TERMS:	N30 NET 30 DAYS	Delete
	PRICE METHOD:	Cost-Plus V FACTOR: 1.5	More
Johnson City MO 77777	PRICE LIST:		<u>C</u> ontracts
USA	BALANCE METHOD:	Open-Item V	Work Queue
	STATUS:	Credit-OK 🗸	<u></u>
LAST SALE: 04/16/2021	ES: \$23685.00	CREDIT LIMIT: \$15000.00	QUIT
NO. SALES: TOTAL SAL	ES: \$23685.00	BEGIN MONTH: \$0.00	
DATE ADDED: 10/17/2017	ED: 06/05/2018 분3	BALANCE: \$23685.00	
(#1of1)			
cusi			
voices and Credit Memos			OV

18. Select "Invoices > Print" option and select Invoice to print / generate PDF Invoice for.



Sample Invoice



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19. Select "QUIT" to return to "Customer-Maintenance" screen:

Customer-Maintenance				CUSTOME
				Add
ID #: 1003 REF #: XYZ-INC	PHONE:	333-455-2100	EXT: 120	··· Eind
XYZ INCORPORATED	FAX:	333-455-2101	L	··· Next
Robert Chandler, President	LOC: 1	CORP. HEADO	QUARTERS / MANUFACTURING	- Danui
4000 North Gateway Blvd.	SALES REP:	JEJ	James E. Jones	Previ
	TERRITORY:	US3	USA - SOUTHEAST	Goto
Johnson City MO 77777	SERVICE ZONE:			Updat
USA	CUSTOMER TYPE:	MFR	MANUFACTURER	Order
	LEAD SOURCE:	CCL	COLD CALL	Qiuei
	ACTIVE?:	Yes 🗸 🗸	COMMISSION?: No ~	Invoid
BILLING ADDRESS	TAXABLE ?:	Yes 🗸 🗸	TAX RATE: 0.0 0.0	<u>R</u> eceiva
XYZ INCORPORATED	RESALE #:	RESALE NUM	03 FINANCE?: No V	opTior
	RESALE EXPIRATION:		DOC:	opho
4000 North Gateway Blvd.	PAYMENT TERMS:	N30	NET 30 DAYS	Delet
	PRICE METHOD:	Cost-Plus	 FACTOR: 1.5 	More
Johnson City MO 77777	PRICE LIST:			Contra
USA	BALANCE METHOD:	Open-Item	~	
	STATUS:	Credit-OK	\sim	Work Qu
LAST SALE: 04/16/2021 13 YTD SALE	S: \$23685.00		CREDIT LIMIT: \$15000.00	QUIT
NO. SALES: TOTAL SALE	S: \$23685.00		BEGIN MONTH: \$0.00	
DATE ADDED: 10/17/2017	D: 06/05/2018		BALANCE: \$23685.00	
(#1of1)				
CUST				

20. Select "Receivables > Transactions" option to access "Customer-Transition" screen:

Customer-Trans	action									TRANSAC	TIONS
									^	<u>P</u> ayme	nts
CUST #:	1003		REF #:	XYZ-INC	XYZ INCOR	PORATED]		<u>R</u> efur	nd
DATE	INVOICE	TRANS		DESCRIPTION		DEBIT	CREDIT	POST		Updat	te
04/16/21	1003	INVCE	Sales C	order for Transfo		\$23685.00		Yes		Appl	y
										View	
										posT	ſ
										uNpos	st
										<u>a</u> dJustm	ents
										vOid	
POS	TED BALANCE:	\$23	8685.00			ACTUAL BALANCE:	\$23685.00			<u>D</u> elet	e



6.2 – Accounts Payable / Purchase Order

This step illustrates the accounts payable and purchase order generation process.

Workflow Steps

1. Select "Financials" on the Global Edge main menu:



2. Select "Accounts Payable / Purchase Order" option on the Integrated Financials menu:

/endor-Maintenance				VENDOR Add
VENDOR #:	СОМ	PANY:		Eind
REF #:	CON	TACT:		<u>N</u> ext
PHONE:	AL	DDR 1:		Desidence
EXT:	A	DDR 2:		Previous
FAX:	CT/	ST/ZP:		Goto
TYPE:	COU	NTRY:		Update
E-MAIL:				Transaction
WEB SITE:		1000105 #		 purChase-Ord
		CREDIT LIMIT:		 Options
		PAY TERMS:		Reports
		BEGIN MN BAL:		
		BALANCE:		poSt
LAST PURCHASE:	12.3.21	NO. PURCHASES:		Delete
YTD PURCHASES:		1099 REQ:	~	Work Queue
OTAL PURCHASES:		FEDERAL TAX ID:		QUIT
DATE ADDED:	14.5.2	CREDIT CARD ACCOUNT:	~	
DATE MODIFIED:	11.3.21			
NOTES:				



3. Select "*Find* > *Vendor*" option and retrieve VENDOR #: "1001" which will display the following vendor record and menu options:

endor-Maintenance						
/ENDOR #:	1001	COMPANY:	UPS CUSTOMER	CENTER		Eind
REF #: UPS		CONTACT:				<u>N</u> ext
PHONE: 800-742	2-5877	ADDR 1:	12400 W. Bluemo	ound Road		Previous
EXT:		ADDR 2:				<u>Previous</u>
FAX:		CT/ST/ZP:	Elm Grove		WI 53122	Goto
TYPE: FRT	FREIGHT VENDOR	COUNTRY:				Update
E-MAIL:						Transaction
WEB SITE:						- Charles O
PS CUSTOMER CENTE	R		ACCOUNT #:			purchase-Ord
2400 W. Bluemound R	td.		CREDIT LIMIT:		\$5000.00	Options
			PAY TERMS:	N30	NET 30 DAYS	Reports
m Grove	WI 53122		BEGIN MN BAL:		\$0.00	noSt
			BALANCE:		\$0.00	East
LAST PURCHASE:	1132		NO. PURCHASES:		0	Delete
YTD PURCHASES:	\$0.00		1099 REQ:	No 🗸		Work Queue
OTAL PURCHASES:	\$0.00	1	FEDERAL TAX ID:			QUIT
DATE ADDED:	建装 用	CREDIT	CARD ACCOUNT:	No 🗸		
DATE MODIFIED:	11.3.21					
NOTES:						
#1of1)						
210						

4. Select "Transactions" option to display the following screen form and menu options:

							Invoice
VENDOR #:	1001 REF #:	UPS	UPS CUSTOMER CENTER				Сору
DATE	INVOICE NUMBER	TRANS	DESCRIPTION	DEBIT	CREDIT	POST	cRedits
9/26/2019	ABC-453322	INVCE	Purchase of Steel Metal Stock		\$29261.09	Yes	
2/15/2019		ADJST	Canceled Payment		\$750.00	No	Payments
9/27/2018		PAYMT	Payment Voided	\$400.00		No	Undate
7/15/2018		PAYMT	Wire Transfer Canceled	\$750.00		No	Opuate
5/18/2018	ABC-987621	INVCE	Consulting fee		\$750.00	No	Apply
5/16/2016		PAYMT	PAYMENT TO VENDOR	\$24237.90		Clrd	
4/13/2016	2384999999	INVCE	steel stock		\$24237.90	Clrd	adJustmen
3/03/2014		PAYMT	PAYMENT TO VENDOR	\$5191.94		Clrd	Examine
7/14/2014	23-8412342	INVCE	steel stock		\$5191.94	Clrd	Examine
7/15/2013		PAYMT	PAYMENT TO VENDOR	\$6762.29		Clrd	Void
5/12/2013	23-8123213	INVCE	steel stock		\$6762.29	Clrd	
0/13/2012		PAYMT	PAYMENT TO VENDOR	\$5191.94		Clrd	posT
0/10/2012	22-30523	INVCE	steel stock		\$5191.94	Clrd	uNpost
5/30/2012		PAYMT	PAYMENT TO VENDOR	\$6164.84		Clrd	2.0001
5/12/2012	22-27888	INVCE	steel stock		\$6164.84	Clrd	GL-Recond
				POSTED BALANCE:	\$0.00		Delete
			I	NCLUDING UNPOSTED:	\$350.00		QUIT



5. Select "Invoice" option to display the following screen form to enter incoming vendor invoice header information:



6. Select "OK" followed by "Add" option on the ITEMS menu to display the following screen form:

P-Invoice-Pa	art-Detail									C		
Enter Line Ite	em Informatio	on, then Pre	ss [OK]:								OK	
VENDOR #:	100	01	REF #:	UPS							Cancel	
	UPS CUSTO	MER CENTE	R								F7	
NVOICE #:					Т	RANS #:			0			
PROJ. #:						PHASE:						
JOB #:					WOR	K PACK:						
PART #:						ITEM #:	1					
DESC:	Invoice for	Sheet Metal	Stock									
EXP TYPE:												
ACCOUNT:	114100	- STO	СК									
LOC #:	1	CORP. HEA	DQUARTERS	/ MANUFA	ACTURIN	IG						
DEPT #:												
WC #:												
POST CAT:	Other		\sim			T/	AXABLE:	No	\sim			
EMPL #:												
	QUANTI	ΓY	UNIT P	RICE			EXTENDED)				
INVOICE:	500.	0000		\$0.5000				\$250	.00			
UOM:	pounds			FRE	IGHT:			\$50	.00			
ORDERED:				SALE	S TAX:			\$0	.00			
REJECTED:												
RECEIVED:				Т	OTAL:			\$300	.00			
U	NIT SHIP WE	IGHT:			UOM:							
EXTEND	DED SHIP WE	IGHT:										
PUR	RCHASE ORD	ER #:		LINE IT	'EM #:							
	SHIPME	NT #:		LINE IT	'EM #:							



7. Select "OK" when done which will display the "AP-Invoice-Edit" screen:



8. Select "QUIT" twice to complete vendor invoice entry and return to TRANSACTIONS menu:

							Īuva	ice
VENDOR #:	1001 REF #:	UPS	UPS CUSTOMER CENTER					ру
DATE	INVOICE NUMBER	TRANS	DESCRIPTION	DEBIT	CREDIT	POST	cRer	dits
3/26/2024	123456	INVCE	Invoice for Sheet Metal Stock		\$300.00	No		
9/26/2019	ABC-453322	INVCE	Purchase of Steel Metal Stock		\$29261.09	Yes	Paym	ents
2/15/2019		ADJST	Canceled Payment		\$750.00	No	Lind	
9/27/2018		PAYMT	Payment Voided	\$400.00		No	Opu	ate
07/15/2018		PAYMT	Wire Transfer Canceled	\$750.00		No	App	oly
06/18/2018	ABC-987621	INVCE	Consulting fee		\$750.00	No		
05/16/2016		PAYMT	PAYMENT TO VENDOR	\$24237.90		Cird	adJust	mer
04/13/2016	2384999999	INVCE	steel stock		\$24237.90	Cird	Evan	nino
08/03/2014		PAYMT	PAYMENT TO VENDOR	\$5191.94		Cird	Exan	iii ie
07/14/2014	23-8412342	INVCE	steel stock		\$5191.94	Clrd	Vo	id
07/15/2013		PAYMT	PAYMENT TO VENDOR	\$6762.29		Clrd		
06/12/2013	23-8123213	INVCE	steel stock		\$6762.29	Clrd	Dos	sT
10/13/2012		PAYMT	PAYMENT TO VENDOR	\$5191.94		Clrd		
10/10/2012	22-30523	INVCE	steel stock		\$5191.94	Clrd	ūnbi	ost
06/30/2012		PAYMT	PAYMENT TO VENDOR	\$6164.84		Cird	GL-Rec	onc
				POSTED BALANCE:	\$0.00		Dele	ete
				INCLUDING UNPOSTED:	\$650.00		01	пт

9. Select "Post" option to post all or selected accounts payable transactions to general ledger.



10. Select "QUIT > Purchase-Order > Update" option and select "P.O. #: 1009" on the following screen form:

der-List						ОК	
ase Order, then Pre	ess [OK]:						
#: 1001	REF #: UPS	UPS CUSTOMER CENTER				Cancel	
REFERENCE	DESCRIPTION	DATE	TOTAL	STATUS	F	6-Examine	P
	Purchase of Steel Metal Stock	09/01/2019	\$33626.49	Entered			
	Purchase of Hardware Components	09/01/2019	\$1487.50	Entered			
	Purchase of Steel Metal Stock	09/01/2019	\$29261.09	Closed			
	#: 1001 REFERENCE	ase Order, then Press [OK]: #: 1001 REF #: UPS REFERENCE DESCRIPTION Purchase of Steel Metal Stock Purchase of Steel Metal Stock Unchase of Steel Metal Stock	ase Order, then Press [OK]: #: 1001 REF #: UPS UPS CUSTOMER CENTER REFERENCE DESCRIPTION DATE Purchase of Steel Metal Stock 09/01/2019 Purchase of Steel Metal Stock 09/01/2019 Purchase of Steel Metal Stock 09/01/2019	Asse Order, then Press [OK]: # 1001 REF #: UPS UPS CUSTOMER CENTER REFERENCE DESCRIPTION DATE TOTAL 09/01/2019 \$33626.49 09/01/2019 \$1487.50 09/01/2019 \$29261.09 \$29261.09	ase Order, then Press [OK]: #: 1001 REF #: UPS UPS CUSTOMER CENTER REFERENCE DESCRIPTION DATE TOTAL STATUS Purchase of Steel Metal Stock 09/01/2019 \$33626.49 Entered Purchase of Steel Metal Stock 09/01/2019 \$1487.50 Closed	Purchase of Steel Metal Stock 09/01/2019 \$33626.49 Entered Purchase of Steel Metal Stock 09/01/2019 \$3487.50 Entered Closed	Purchase of Steel Metal Stock 09/01/2019 \$1497.50 Entered Closed Purchase of Steel Metal Stock 09/01/2019 \$29251.09 Entered Closed Filtered Closed <

11. Select "OK" option to display the following screen form and menu options:

urchase-Orde	er-Header									PUR	CHASE-ORD
VENDOR #:	100	01	REF #	UPS		UPS CUSTOMER CE	ENTER				<u>I</u> tems
PO #:	100	9		RE	V #:		PO DATE:	09/01/2019	12.2	S	hip-Address
PO DESC:	Purchase o	f Steel I	Metal Stock								Bill-Address
CONTACT:		1 0		ERS / MANUEAC	TURING	V	BLANKET: ALID FROM:	~	11.24		sHipments
DEPT #:						v	ALID THRU:		11.3.2	[Print
W.C. #:											<u>s</u> Tatus
CUST #:											<u>R</u> evise
ORDER #:										G	onfiguration
REC	UESTED BY:	LDC	Larry D. Colbou	'n		PO TYPE:	Normal		~		Documents
AUTH	IORIZED BY:					TAXABLE:	No 🗸				
	PAY TERMS:	N30	NET 30 DAYS			RATE:	_	0.00			QUII
SH	IP WEIGHT:	_	61139.0	9		STATUS:	Entered	~			
SH	IP WT UOM:	lbs				RECEIVING:	Yes	~			
	SHIP VIA:	BST	BEST WAY			NET CHARGE:		\$3362	26.49		
FOB	LOCATION:	Shipp	ing Point			FREIGHT:		1	\$0.00		
EXPE	CIED DATE:	09/08	<mark>/2019</mark> [분쇄]	PARTIAL:	Yes 🗸	SALES TAX:		5	\$0.00		
AU	1.1.2ED		113	13101		PO TOTAL:		\$3362	26.49		



12. Select "Items > Update" option and select "LINE #: 1" on the following screen form:

A.P: Global	l Edge Window	vs Demo Serve	r							-	
D-Item-List									_		ſ
VENDOR #: P.O. #:	1001 1009	REF #: Purchase of S	UPS Iteel Metal Stock	UPS CUSTOMER CENTER							
LINE 1 GR 2 CR 3 CR 4 CR 5 CR 6 CR 7	PART 548960.0 548960.0 548960.0 548960.1 548960.1 548960.1	# 24005HT 30005HT 36005HT 42005HT 55005HT 05005HT 05005HT	COLD ROLL STEE COLD ROLL STEE COLD ROLL STEE COLD ROLL STEE COLD ROLL STEE COLD ROLL STEE	DESCRIPTION 1. SHEET 48 × 96 × 0.02400 1. SHEET 48 × 96 × 0.03000 1. SHEET 48 × 96 × 0.03600 1. SHEET 48 × 96 × 0.04200 1. SHEET 48 × 96 × 0.07500 1. SHEET 48 × 96 × 0.12000 1. SHEET 48 × 96 × 0.12000	QUANTITY 75.0000 200.0000 75.0000 150.0000 85.0000 115.0000	UOM each each each each each each	UNIT PRICE \$21.5900 \$22.9081 \$30.2261 \$53.9751 \$75.5652 \$86.3602	EXTENDED \$1295.40 \$4318.00 \$1295.41 \$2266.5 \$8096.27 \$6423.04 \$9931.42	STATUS Active		
AFVE											

13. Select "OK" option to display the following screen form and menu options:

urchase-Order-Item							PO-ITEM
							Update
NDOR #:	1001 REF #:	UPS	UPS CUSTOMER O	ENTER			Vendor-Pa
P.O. #:	1009 Purchase of Steel N	letal Stock					Open-PO
PROJECT #:			JOE	3 #:			Invoices
PHASE #:			WORK PACK	(#:			
PART #: CRS48	960.02400SHT	HIC	DE: No 🗸	LINE ITEM #:		1	inVentory
OLD ROLL STEEL SHEE	ET 48 x 96 x 0.02400			REVISION #:			Prices
RS				STATUS:	Active	\sim	MRP
OLD ROLLED STEEL				TAXABLE:	No	\sim	proCess
				PARTIAL:	Yes	\sim	
				ORDER QTY:		75.0000	Qui
				OVER/UNDER:	0.0	/ 0.0	
UNIT SHIP WT:	31.40370432			RECEIVED QTY:			
UOM:	lbs			EXT SHIP WT:		2355.28	
EXPENSE TYPE:				UOM:	each		
ACCOUNT #:	114001 - SHEET I	METAL		UNIT PRICE:		\$17.2720	
LOC #: 1	CORP. HEADQUARTERS /	MANUFACTURING		EXTENDED:		\$1295.40	
DEPT #:							
WC #:							
POST CATEGORY:	Inventory \sim	RECEIVING: N	No v				
EMPLOYEE #:							

14. Select "QUIT" option twice to return to "Purchase-Order-Header" screen and select "Print" option to generate purchase order report.

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Sample Purchase Order





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6.3 – Inventory Management

This step illustrates the inventory management capabilities.

Workflow Steps

1. Select "Inventory" option on the Global Edge main menu:



2. Select "Inventory Maintenance > Inventory Management" option on Inventory Management menu:





3. Select "*Find > Part*" option and retrieve **PART #:** "*SHEET-METAL-PANEL*" which will display the following PART menu options:



4. Select "Transactions > Displayed" option to display the following screen form and menu options:

	ISOCION						A (<u>A</u> dd
DATE	TRANS TYPE	QUANTITY	UOM	PURC. PRICE	SALE PRICE	POST	-	Update
9/02/2019	SALE	75.0000	each		\$5437.50	Clrd		
6/21/2019	SALE	175.0000	each		\$12162.50	Clrd		View
2/17/2019	SALE	250.0000	each		\$17375.00	Cird		Delete
0/11/2018	SALE	25.0000	each		\$1875.00	Cird		Delete
4/23/2018	SALE	115.0000	each		\$8050.00	Cird		Post
2/04/2018	SALE	25.0000	each		\$1875.00	Cird		
1/19/2017	SALE	150.0000	each		\$10500.00	Cird		Unpost
8/05/2017	SALE	85.0000	each		\$6162.50	Cird		Switch
5/26/2017	SALE	35.0000	each		\$2625.00	Cird		Switch
								Test
17							-	QUIT

5. Select "QUIT" followed by "History" option to display the following screen form and menu options:

	INVE	NTO	RY: Global Edge V	Vindows Demo	Serv	er						-		×
	Invento	ory-P	art-History										PART HIST	FORY ly
	YEAR		UNITS SOLD	% CHANGE		SALES DOLLARS	% CHANGE		AVG SALE PRICE	% CHANGE			TD	
	2024	:	0.0000		%	\$0.00		%			%		lobs	
	2023	+	0.0000		%	\$0.00		%			%		Shipmer	nts
	2022	:	0.0000		%	\$0.00		%			%		and Dia	
	2021	:	0.0000		%	\$0.00		%			%		acros	
	2020	:	0.0000			\$0.00							Inspect	ion
													QUIT	
	INVI													
Ма	nthly Sa	les H	istory											OVR;

6. Select "QUIT" followed by "Reports" option to display the following report menu options:

INVENTORY: Global Edge Windows De	-		×
Report-Selection			
SELECT INVENTORY REPORT			
Brief Listing		Cance	el
Detailed Listing			
Valuation			
Re-Order			
Detailed Re-Order			
Count			
Purchase History			
Sales History			
Inventory Transaction			
Open Order			
Shipping History			
Part Requisition			
Bin Labels			
Close Window			
RPTS			
			OVR
			OVR



7. Select "QUIT > Find > Part" option and retrieve PART #: "AL-*" which will display the following PART menu options:



8. Select "Locations" option to display the following screen form and menu options:





9. Select "Update" option followed by "OK" to display the following screen form and menu options:

🐖 INVENTORY: Global	Edge Windows De	emo Server				-	
Inventory-Locations							PART STORAGE
							Bins
LOCATION #:	1 CORP. H	IEADQUARTERS / MANUFACT	URING				Levels
POSTED QTY:	35.0000	QTY ON HAND:	35.0000				Regen
REMNANT QTY:					AVAILABLE		Customer
REORDER LEVEL:	200.0000	- COMMITTED:	0.0000	=	35.0000		Vendor
MAX QTY:	400.0000	+ QTY ORDERED:	0.0000	-	35.0000		WIP
QIT ON-SITE:		QIT OFF-SITE:					<u>w</u> r
SMSB-01		8 3 LASER		(Transfer
	reiding .		0011210				History
							QUIT
INVD							
Bin Options							OVR

10. Select "Bins > Update" option followed by "OK" option to display following screen form:

INVENTORY:	Global Edg	ge Windov	vs Demo S	erver			-		\times
Inventory-Bin-Le	ocation								
Add Bin Informa	ation:, then	Press [OK]	:					OK	
BIN #:	SMSB-01			BIN TYPE:	Rack	~		Cancel	
DESC:	SHEET ME	TAL STORA	GE BIN 01						
DEPT #:	8	MANUFA	CTURING						
WC #:	3	LASER CL	JTTING						
QUANTITY:				UOM:					
REMNANT QTY:									
CAPACITY:				STORAGE TYPE:	Picking	\sim			
INVG									
nter Description of	f Storage Lo	ocation:						0	DVR



Sample Data (Inventory Bin Table)

TRANS #	LOC	DEPT	WC	ASSET #	BIN #	DESCRIPTION	AISLE	BIN	CAPACITY	UOM	MAX. WT.	UOM
3	1	8	3	1207	SMSB-01	SHEET METAL STORAGE BIN 01		1	100.0000	each	4000.0000	lbs
4	1	8	3	1207	SMSB-02	SHEET METAL STORAGE BIN 02		2	100.0000	each	4000.0000	lbs
5	1	8	3	1207	SMSB-03	SHEET METAL STORAGE BIN 03		3	100.0000	each	4000.0000	lbs
6	1	8	3	1207	SMSB-04	SHEET METAL STORAGE BIN 04		4	100.0000	each	4000.0000	lbs
7	1	8	3	1207	SMSB-05	SHEET METAL STORAGE BIN 05		5	100.0000	each	4000.0000	lbs
8	1	8	3	1207	SMSB-06	SHEET METAL STORAGE BIN 06		6	100.0000	each	4000.0000	lbs
9	1	8	3	1207	SMSB-07	SHEET METAL STORAGE BIN 07		7	100.0000	each	4000.0000	lbs
10	1	8	3	1207	SMSB-08	SHEET METAL STORAGE BIN 08		8	100.0000	each	4000.0000	lbs
11	1	8	3	1207	SMSB-09	SHEET METAL STORAGE BIN 09		9	100.0000	each	4000.0000	lbs
12	1	8	3	1207	SMSB-10	SHEET METAL STORAGE BIN 10		10	100.0000	each	4000.0000	lbs
13	1	8	3	1207	SMSB-11	SHEET METAL STORAGE BIN 11		11	100.0000	each	4000.0000	lbs
14	1	8	3	1207	SMSB-12	SHEET METAL STORAGE BIN 12		12	100.0000	each	4000.0000	lbs
15	1	8	3	1207	SMSB-13	SHEET METAL STORAGE BIN 13		13	100.0000	each	4000.0000	lbs
16	1	8	3	1207	SMSB-14	SHEET METAL STORAGE BIN 14		14	100.0000	each	4000.0000	lbs

Sample Data (Inventory Locations Detail Table)

TRANS #	DEPT	WC	BIN TRAN	DESCRIPTION	QTY. ON HAND	REMANT QTY.	CAPACITY	UOM
14			3	SHEET METAL STORAGE BIN 01	0.0000	0.0000		
15			4	SHEET METAL STORAGE BIN 02	0.0000	0.0000		
16			5	SHEET METAL STORAGE BIN 03	0.0000	0.0000		
17			6	SHEET METAL STORAGE BIN 04	0.0000	0.0000		
18			7	SHEET METAL STORAGE BIN 05	0.0000	0.0000		
19			8	SHEET METAL STORAGE BIN 06	0.0000	0.0000		
20			9	SHEET METAL STORAGE BIN 07	0.0000	0.0000		
21			10	SHEET METAL STORAGE BIN 08	0.0000	0.0000		
22			11	SHEET METAL STORAGE BIN 09	0.0000	0.0000		
23			12	SHEET METAL STORAGE BIN 10	0.0000	0.0000		
24			13	SHEET METAL STORAGE BIN 11	0.0000	0.0000		
25			14	SHEET METAL STORAGE BIN 12	0.0000	0.0000		
26			15	SHEET METAL STORAGE BIN 13	0.0000	0.0000		

Sample Data (Inventory Locations Table)

TRANS #	PART #	LOC #	QTY. ON HAND	POSTED QTY.	REMNANT QTY.	REORDER LEVEL	MAX. QTY.
14	AL-481200.05008SHT	1	35.0000	35.0000	0.0000	200.0000	400.0000
15	AL-48960.03207SHT	1	200.0000	200.0000	0.0000	100.0000	200.0000
16	AL-601200.10007SHT	1	0.0000	0.0000	0.0000	25.0000	50.0000
17	CRS48960.02400SHT	1	0.0000	0.0000	0.0000	250.0000	500.0000
18	CRS48960.03000SHT	1	0.0000	0.0000	0.0000	225.0000	450.0000
19	CRS48960.03600SHT	1	0.0000	0.0000	0.0000	200.0000	400.0000
20	CRS48960.04200SHT	1	0.0000	0.0000	0.0000	175.0000	350.0000
21	CRS48960.07500SHT	1	0.0000	0.0000	0.0000	150.0000	300.0000
22	CRS48960.10500SHT	1	0.0000	0.0000	0.0000	125.0000	250.0000
23	CRS48960.12000SHT	1	0.0000	0.0000	0.0000	100.0000	200.0000
24	CRS48960.15000SHT	1	0.0000	0.0000	0.0000	75.0000	150.0000
25	CRS48960.37500SHT	1	0.0000	0.0000	0.0000	50.0000	100.0000
26	CRS501200.10500SHT	1	0.0000	0.0000	0.0000	100.0000	200.0000



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11. Return to the Global Edge main menu and select "Inventory" option:



12. Select "Shipping / Receiving" option on Inventory Management menu:

	-							
Shipment-List						SHI	PPING-RECE	IVIN
							Customer	
PART SHIPPED:							Vendor	
HIP DATE BETWEEN:	1.12	AND	11.3.21				<u>O</u> rder	
CUSTOMER NUMBER:							PO	
VENDOR NUMBER:							Shipments	
TYPE:	ORDER		CONSIGNMENT	PURCHASE	REJECTED		Locations	
	VENDOR PROCES	SS	RMA RETURN	PROCESS RETUR	N MOVE			
		SOURCE A	DDRESS	DESTI	INATION ADDRESS		Ereight-Vend	dor
COMPANY:							Work Queu	Je .
CONTACT:							OUT	
ADDRESS 1:							0011	
ADDRESS 2:								
CITY/ST/ZIP:								
COUNTRY:								
NSO						_		



13. Select "Find" option and retrieve CUSTOMER #: "1001" to display the following customer record and menu options:

_						
Shipping-Receiving						CUSTOMER
						Eind
ID #: 1001 REF #: ABC-MFG	PHONE:	414-555-	1100	EXT:	101	<u>N</u> ext
ABC MANUFACTURING	FAX:	414-555-	1105			Previou
lobert Smith, V.P. of Engineering	REP:	RDS	SMITH INCO	RPORATED		Chinmont
000 West Industrial Way	TER:	US1	USA - CENT	RAL		gripment
	CUST TYPE:	MFR	MANUFACTI	JRER		Receipts
VI 55555	TAXABLE ?:	Yes $ \smallsetminus $	RATE:	0.0	0.0	Labels
Jnited States of America	PAY TERMS:	N30	NET 30 DAY	s		Ontions
	CREDIT STATUS:	Credit-O	κ V			Options
						QUIT
(#1of1)						
NS1						

14. Select "Shipments" option to display the following screen form and menu options:

I SHIP & RECEIVE: Global Edge Windows Demo Server			_		×
Customer-Shipments				SHIPMENT	
				<u>A</u> dd	
DATE SHPMT # ORDER/RMA # INVOICE # TYPE P/	АТН	POST		Update	•
				Delete	
Customer-Shipments SHIPMENT DATE SHPMT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER,RMA # INVOICE # TYPE PATH POST Date SHIPMENT # ORDER SHIPMENT SHIPMENT SHIPMENT					
Customer-Shipments SHIPMENT DATE SHPMT # ORDER,RMA # INVOICE # TYPE PATH POST DATE SHPMT # ORDER,RMA # INVOICE # TYPE PATH POST Delete Verw Beports Delete Verw Beports		s			
				Post	
				Notes	
) SHIPMENTS FOUND				QUIT	
INSD			Ŧ		
Add Shipment Record				C	WR

15. Select "Add > Order" option to display the following screen form and menu options:

ales-Order-L	ist	5								
elect Order,	, then Press [C	Ж]:								K
CUST #:		REF #:							Car	ncel
RDER #	DATE	CUSTOMER PO	NOTES	PROJ #	JOB #	TOTAL	STATUS	FILLED		
1002	11/10/23 11/10/23	ABC-1002 ABC-1001	Sales Order for Light Fixture (ERP Downloa Sales Order for Cabinet Body (ERP Downloa		1005	\$0.00 \$0.00	Released	No No		
ID1										

16. Select "**OK** > **Yes** > **Order**" option to load sales order into shipment which will display the following screen form and menu options:

🐖 SHIP 8	& RECEIVE: Global Edge	Windows Demo S	erver									-	o x
Custome	r-Shipments-Edit												SHIPMENT Update
SHIF DA ORDER	P #: 1002 NTE: 03/26/2024 분홍계 R #: 1003	RMA #: INV #: CLOSE ORDER?:	POSTED: No V	IENT TYPE: PATH: VIA:	Order Locati TRK	on to Customer VIA TRUCK	~	PAYMENT TERMS:	N30 NET 30 DAYS				Items Src-Dst
LINE # 1 2 3 4 5 5	PART NUMBER DEM-01-APRON DEM-024-OAD-CTR-BOX DEM-03-BOTTOM-DLH DEM-03+DOTTOM-DLH DEM-03+PANEL	APRON LOAD CEP BOTTOM I SHEET ME SHEET ME	PART NUMBER DESCRIPTION ITER BOX DISPLAY LIGHT HOUSING TAL HOUSING TAL PANEL			ORDER QTY. 15.0000 25.0000 25.0000 30.0000 35.0000	SHIP QTY.	SHIP UOM EA EA EA EA EA	SHIP WT 3.6551 12.5235 1.6054 17.4537 1.9715	EXT. WT	SHIP WT UOM bs bs bs bs bs bs	•	Pack-List B-O-L Labels post Notes QUIT
Update Shipr	nent												OVR



17. Select "Items > Fill" option to fill order quantities which will display updated shipment screen totals:

ustomer-	nipments-Edit													Updat
SHIP ;	#: 1002	RMA #:		SHIPMEN	T TYPE:	Order		~						Eil
DAT	: 03/26/2024 분홍경	INV #:			PATH:	Locatio	on to Customer	\sim						Inspect
ORDER :	#: 1003	CLOSE ORDER?:	Yes V PO	STED: No \checkmark	VIA:	TRK	VIA TRUCK		PAYMENT TERMS	N30 NET 30 D	AYS			
NE #	PART NUMBER		PART	NUMBER DESCRIPTION			ORDER QTY.	SHIP QTY.	SHIP UOM	SHIP WT	Ð	а. wт	SHIP WT UOM	View
1 [EM-01-APRON	APRON					15.0000	15.	0000 EA	3.656		54.8415	lbs	QUIT
2 0	EM-02-LOAD-CTR-BOX	LOAD CE	NTER BOX				20.0000	20.	0000 EA	12.523	5	250.47	lbs	
3 E	EM-03-BOTTOM-DLH	BOTTOM	DISPLAY LIGHT	HOUSING			25.0000	25.	0000 EA	1.6054	+	40.135	lbs	
4 E	EM-04-HOUSING	SHEET M	ETAL HOUSING				30.0000	30.	0000 EA	17.453	7	523.611	lbs	
5 E	EM-05-PANEL	SHEET M	ETAL PANEL				35.0000	35.	0000 EA	1.971	5	69.0025	lbs	
							· · · · ·			-				

18. Select "QUIT > Post > Yes" option to post / release shipment:

													Updat
SHIP	#: 1002	RMA #:		SHIPMENT TYPE:	Order		~						Items
DA	TE: 03/26/2024 1134	INV #:		PATH:	Locati	on to Customer	\sim						Src-De
ORDER	#: 1003	CLOSE ORDER ?:	Yes \lor POSTED:	Yes \lor VIA:	TRK	VIA TRUCK		PAYMENT TERMS:	N30 NE	T 30 DAYS			Dack Li
#	PART NUMBER		PART NUMBE	R DESCRIPTION		ORDER QTY.	SHIP QT	Y. SHIP UOM	SHIP	NΤ	EXT. WT	SHIP WT UOM	Pack-Li
1	DEM-01-APRON	APRON				15.0000	1	5.0000 EA		3.6561	54.8415	lbs	B-O-L
2	DEM-02-LOAD-CTR-BOX	LOAD CE	NTER BOX			20.0000	2	EA	1	2.5235	250.47	lbs	Label
3	DEM-03-BOTTOM-DLH	BOTTOM	DISPLAY LIGHT HOUSI	NG		25.0000	2	5.0000 EA		1.6054	40.135	lbs	Laber
4	DEM-04-HOUSING	SHEET M	ETAL HOUSING			30.0000	3	EA	1	.7.4537	523.611	lbs	posT
5	DEM-05-PANEL	SHEET M	ETAL PANEL			35.0000	3	5.0000 EA		1.9715	69.0025	lbs	
													Notes
													OUT
													2011
-													

19. Return to SHIPPING-RECEIVING menu which will display the following screen form and menu options:

File & RECEIVE: Glo	bal Edge Windows	Demo Ser	ver			- 🗆 X
Shipment-List						SHIPPING-RECEIVING
						Customer
PART SHIPPED:						Vendor
SHIP DATE BETWEEN:	1.1.2	AND	123			Order
CUSTOMER NUMBER:						<u>P</u> O
VENDOR NUMBER:						Shipments
TYPE:	ORDER VENDOR PROCES	s	CONSIGNMENT RMA RETURN	PURCHASE PROCESS RETURN	REJECTED	Locations
	5		DRESS	DESTINAT	ION ADDRESS	Ereight-Vendor
COMPANY:						Work Queue
CONTACT: ADDRESS 1:						QUIT
ADDRESS 2:						
CITY/ST/ZIP:						
COUNTRY:						
INSQ						-
Customer Shipments						OVR .:



20. Select "PO" option to display the following screen form and menu options:

SHIP & RECEIVE: Global	l Edge Windows Demo Serv	rer			-	
Vendor-Find						
Enter Vendor Search Condit	tions, then Press [OK]:					UK
PO #:	PO DATE:	1.1.2	NET:			Cancel
VEND #:	EXP DATE:	1.12	FREIGHT:			
REF #:	AUTH DATE:	1.X.2	TAX:			
	ISSUE DATE:	1.12	TOTAL:			
BILLING A	ADDRESS	TAXA	BLE ?: RA	TE:		
		ST	ATUS:			
		т	ERMS:			
		SHI	P VIA:			
		ENTER	ED BY:			
		AUTHORIZ	ED BY:			
SHIPPING	ADDRESS	LOCAT	ON #1			
		DEDADME	NT #1			
		WORK CENT	FD #•			
		. Side CEN				
NS5					_	
- Durchase Order Nurshau						010

21. Select "OK" to display the following screen form and menu options:

elect Purchas	e Order, then Pi	ress [OK]:				
VENDOR #		REF #:				Cancel
.0. #	REFERENCE	DESCRIPTION	DATE	TOTAL	STATUS	F6-SWITC
1001		Purchase of Steel Metal Stock	09/01/2019	\$29261.09	Closed	
1002		Purchase of Hardware Components	09/01/2019	\$1918.00	Entered	
1003		Purchase of Hardware Components	09/01/2019	\$1487.50	Entered	
1004		Purchase of Hardware Components	09/01/2019	\$467.50	Entered	
1005		Purchase of Portable Generators	09/01/2019	\$64010.00	Entered	
1006		Purchase of Hydraulic Components	09/01/2019	\$5127.75	Entered	
1007		Purchase of Office Furniture	09/01/2019	\$2712.50	Entered	
1008		Purchase of Indoor / Outdoor Lights	09/01/2019	\$3992.00	Entered	
1009		Purchase of Steel Metal Stock	09/01/2019	\$33626.49	Entered	
1010		Purchase of Steel Metal Stock	09/01/2019	\$3894.30	Entered	
1011		Purchase of Hoses and Tubes	09/01/2019	\$388.70	Entered	
1012		Purchase of Office Furniture	10/07/2019	\$38750.00	Issued	



22. Select "Purchase Order" to receive and select "OK" to display the following screen form and menu options:

INIP & RECEIVE	Global Edge Windows Demo S	erver		-	o x
Vendor-Shipment-De	etail				Receipt Type Purchase
SHIPMENT #: PO #: RMA #: FRGHT VEND: RCV/SHP BY: CUSTOMER #: UOC #: DEPT #: WC #: BILL #: INS9		ILIAI POSTE SHIP TYP SHIP VI	D: E: A: ORDER #: FREIGHT TOTAL:	×	Return
Receive Purchased Item	s from Vendor				OVR

23. Select "Purchase" option to display the following screen form and menu options:

endor-Shipment-D	etail							
HIPMENT #:	1003	DATE:	03/26/2024 분분위	POSTED:	No	/		Item
PO #:	1012			SHIP TYPE:	Purcha	ise	\sim	Src-D
RMA #:				SHIP VIA:	BST	BEST WAY		
RGHT VEND:								Recei
RCV/SHP BY:								Dos
JSTOMER #:						ORDER #:		QUI
LOC #:	1 CORP. H	EADQUARTE	RS / MANUFACTURIN	IG				
DEPT #:								
WC #:								
BILL #:					FREIGH	T TOTAL:		
co								

24. Select "Items" option to display the following screen form and menu options:

	SHIP	& RECEIVE: (Global Edge Windows Demo Ser	ver						-	- 0 X
	PO-Iter Enter F	n-Receive Receiver Item I	Entries, then Press [OK]:								ОК
	LINE	PO LINE	PART NUMBER	DESCRIPTION	QTY. BOL	PREV. SHIP	QTY. RECEIVED	REJECTED	UOM	STATUS	Cancel
	1	1	DEMO-DESK		100.0000	1.0000	100.0000	0.0000	each	Active	Insert
	2	2	DEMO-CHAIR		100.0000	1.0000	100.0000	0.0000	each	Active	insere
	3	3	DEMO-LAMP		100.0000	1.0000	100.0000	0.0000	each	Active	Append
											Delete
											Delete
											F6-Detail
											F7-Inspection
											F8-Serial/Lot
	INS8										
-											
En	iter Item	Number:									OVR .



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25. When done entering "QTY. RECEIVED" for each purchase order line item, then select "OK > Post" to display the following screen form and menu options:

endor-Shipment-D)etail							RECEIPT
								Update
HIPMENT #:	1003	DATE:	03/26/2024 변화	POSTED:	Yes	/		Items
PO #:	1012			SHIP TYPE:	Purcha	ise	~	Src-Ds
RMA #:				SHIP VIA:	BST	BEST WAY		Baarba
RGHT VEND:								Receive
RCV/SHP BY:]			posT
JSTOMER #:						ORDER #:		QUIT
LOC #:	1 CORP. H	EADQUARTE	RS / MANUFACTURIN	G				
DEPT #:								
WC #:								
BILL #:					FREIGH	T TOTAL:		

26. Return to main *Global Edge* menu and select "*Inventory* > *Picking* / *Stocking*" option to display the following screen and menu options:

ob-Picking-Stock	ing							PIC	KING/STOC	KING
-	-								Location	_
LOC #:	1 COR	P. HEADQUA	RTERS / MANUFACTURING		ITEMS IN QUEUE:				Pick	
DEPT #:									Stock	
TYPE	SRC/DST		DESCRIPTION	DATE	REQUIRED	STATUS	-		<u>T</u> ask	
	arcejoar		DEBONITION						<u>G</u> enerate	
				-					QUIT	
				-						
100										

27. Select "Pick > Job" option to display following screen form:

ob-Picking-Stock	ing				ОК
Dptional) Select LOC #: DEPT #: WC #:	Location, Departmen	t & Work Center:			Cancel
JOB #	PRIORITY	SCH START	DESCRIPTION		
ND1				_	



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28. Enter Location, Department and Work Center followed by "Select" option and select JOB #: "10##" on the following screen form:

IOB PICKING			-	□ ×
Job-Picking-Stocking			^	JOB PICKING <u>S</u> elect
LOC #: 1 DEPT #: 8 WC #: 3	CORP. HEADQUARTERS / M MANUFACTURING LASER CUTTING			Location QUIT
JOB ≠ PRIOR 1012	ITY SCH START 3 04/16/21	DESCRIPTION		
Select Job to Pick Parts for			~	OVR .:

29. Select "Traveler > Assign" option on the following screen form:

ob-Picking					BIN PICKING
				^	Traveler
SCAN BIN:			QTY PICK	ED?:	<u>B</u> in-Select
PART #:					<u>S</u> can-Bin
QTY TO PICK:	UC	DM:			El
TRAVELER #:	TYPE:	\sim	LABEL:		Manual
ASSET #:					0.00
LOCATION #1	CUR	RENT LOCATION			QUII
DEPT #:					
WC #:					
ASSET #:			ST	ATUS: V	
BIN #	PART #	REQ # REQ QTY	FILLED BALANCE P	ICKED UOM	
MSB-02	AL-48960.03207SHT	1 93.0000	93.0000	each	
1) Requisition	n(s)				
0.0					



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30. Select "*Traveler* > *Assign*" to display the following screen form:

IOB PICK	ING					-		\times
Traveler-List	t						OK	_
Select Trave	eler for Invento	ry Pick, then Press	s [OK]:				OK	
TRVLR #	TYPE	LABEL	DESCRIPTION	CURRENT LOCATION	STATUS		Cance	9
1	Cart	CART-0001	Inventory Cart #1	Unknown	Available			
2	Cart	CART-0002	Inventory Picking and Stock	Unknown	Available	-		
3	Fork Lift	FORK LIFT-0	Fork Lift #1	Unknown	Available	-		
	TUREN	I ORK LIFT-0	I UIN LITE #2	UNIOWN	AvaidDle	-		
						-		
						-		
						-		
						-		
TRVL								
								OVR .:

31. Select "Fill" option and enter quantity picked followed by "OK" on below screen form:

JOB PICKING						_	
Job-Picking							BIN PICKING
							Traveler
SCAN BIN:				QTY PICKED?:			Bin-Select
PART #:							Scan-Bin
QTY TO PICK:	UOM:						Eill
TRAVELER #: 1	L TYPE: Ca	rt 🗸	LABEL:	CART-0001			Manual
ASSET #: 1181	I Inventory Cart #1						OUIT
LOCATION #:		TECCATION					
DEPT #:							
WC #:							
ASSET #:				STATUS:	In-Transit 🗸		
BIN # SMSB-02 AL-4896-	PART #	REQ # REQ QTY 1 93.0000	FILLED	BALANCE PICKED 93,0000 93,0000	UOM each		
					-		
					_		
					-		
(1) Requisition(s)							



6.4 – General Ledger / Bank Account

This step illustrates the general ledger / bank account management process.

Workflow Steps

1. Select "Financials" on the Global Edge main menu:



2. Select "General Ledger > G.L. Accounts / Transactions" option on the General Ledger menu:

General-Ledger-Accour	nts					GENERAL LED
						Accounts
ACCOUNT NUMBER:			DEBIT/CREDIT:	\sim		Journal-Entr
SUB ACCOUNT OF:			ACCOUNT TYPE:	~		Transaction
CROSS ACCOUNT:			ACCOUNT STATUS:			Post
START OF YEA	AR BALANCE:		ON BUDGET REPORTS:	~		Post
BEGINNING	OF MONTH:		ON INCOME STATEMENT:	~		Reports
CURRENT MO	NTH DEBITS:		ON BALANCE SHEET:	~		Work Queu
CURRENT MON	TH CREDITS:					QUIT
CURF	RENT TOTAL:					
ACCOUNTING METH:	Accural	\sim	CURIENT FISCAL MO	NTH: 1		
PERIODS IN YEAR:	12		CURRENT PER	LIOD: 4	1	
START OF YEAR:	01/01/2022	1.1.2	PERIOD ST	ART: 04/01/2022	(
END OF YEAR:	12/31/2022	12.53	PERIOD	END: 04/30/2022	1	
					_	



3. Select "Accounts > Find" option on the ACCOUNT menu:

							Add
ACCOUNT NUMBER:	1	ASSETS	DEBIT/CREDIT:	Debit	\sim		Eind
SUB ACCOUNT OF:			ACCOUNT TYPE:	Summary		\sim	Next
CROSS ACCOUNT:			ACCOUNT STATUS:	Open		\sim	Brouit
START OF YEA	AR BALANCE:	\$0.00	ON BUDGET REPORTS:	No 🗸			Elevi
BEGINNING	GOF MONTH:	\$0.00	ON INCOME STATEMENT:		~		Goto
CURRENT MO	NTH DEBITS:	\$0.00	ON BALANCE SHEET:		~		Updat
CURRENT MON	TH CREDITS:	\$0.00					Transact
CUR	RENT TOTAL:	\$0.00					Budge
ACCOUNTING METH:	Accural	\sim	CURIENT FISCAL M	ONTH:	1		Eadde
PERIODS IN YEAR:	12		CURRENT PE	RIOD:		4	Locatio
START OF YEAR:	01/01/2022	13.2	PERIOD S	TART:	04/01/2022	li al	Sub-Acco
END OF YEAR:	12/31/2022	1.1.21	PERIO	DEND:	04/30/2022	132	Report-G
							Renum
							Delet
							Delet
							QUI

Sample General Ledger Chart of Accounts

ACCT #	SUB #	ACCOUNT NAME	CR/DB	BG YR BAL	BG MO BAL	DEBIT	CREDIT	TYPE
1		ASSETS	Debit	0.00	0.00	0.00	0.00	S
11	1	CURRENT ASSETS	Debit	0.00	0.00	0.00	0.00	S
111	11	CASH IN BANKS	Debit	0.00	0.00	0.00	0.00	S
1111	111	- Checking Account	Debit	0.00	0.00	0.00	0.00	Т
1112	111	- Payroll Account	Debit	0.00	0.00	0.00	0.00	Т
112	11	- Petty Cash	Debit	0.00	0.00	0.00	0.00	Т
113	11	- Accounts Receivable	Debit	0.00	0.00	0.00	0.00	Т
114	11	INVENTORY	Debit	0.00	0.00	0.00	0.00	S
114001	114	- SHEET METAL	Debit	0.00	0.00	0.00	0.00	Т
114002	114	- ASSEMBLY	Debit	0.00	0.00	0.00	0.00	Т
114100	114	- STOCK	Debit	0.00	0.00	0.00	0.00	Т
114200	114	- HARDWARE	Debit	0.00	0.00	0.00	0.00	Т
114300	114	- OTHER	Debit	0.00	0.00	0.00	0.00	Т
114900	114	- WIP	Debit	0.00	0.00	0.00	0.00	Т
115	11	- Securities	Debit	0.00	0.00	0.00	0.00	Т
116	1	- Office Supplies	Debit	0.00	0.00	0.00	0.00	Т
12	1	FIXED ASSETS	Debit	0.00	0.00	0.00	0.00	S



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Sample General Ledger Chart of Accounts (Continued ...)

ACCT #	SUB #	ACCOUNT NAME	CR/DB	BG YR BAL	BG MO BAL	DEBIT	CREDIT	TYPE
2		LIABILITIES	Credit	0.00	0.00	0.00	0.00	S
21	2	SHORT TERM LIABILITIES	Credit	0.00	0.00	0.00	0.00	S
211	21	- Accounts Payable	Credit	0.00	0.00	0.00	0.00	Т
213	21	TAXES PAYABLE	Credit	0.00	0.00	0.00	0.00	S
2131	213	- SALES & Use Tax	Credit	0.00	0.00	0.00	0.00	Т
2132	213	CORPORATE INCOME TAX	Credit	0.00	0.00	0.00	0.00	S
213201	2132	- Federal Income Tax	Credit	0.00	0.00	0.00	0.00	Т
213202	2132	- WI Income Tax Payable	Credit	0.00	0.00	0.00	0.00	Т
213203	2132	- IL Income Tax Payable	Credit	0.00	0.00	0.00	0.00	Т
213204	2132	- MO Income Tax Payable	Credit	0.00	0.00	0.00	0.00	Т
2133	213	- FUTA Payable	Credit	0.00	0.00	0.00	0.00	Т
2134	213	- FICA Payable	Credit	0.00	0.00	0.00	0.00	Т
2135	213	- State Franch. Payable	Credit	0.00	0.00	0.00	0.00	Т
2136	213	- Withheld Fed Payroll	Credit	0.00	0.00	0.00	0.00	Т
2137	213	- Withheld State Payroll	Credit	0.00	0.00	0.00	0.00	Т
2138	213	- Property Tax Pavable	Credit	0.00	0.00	0.00	0.00	Т
2139	213	- State UC Tax Pavable	Credit	0.00	0.00	0.00	0.00	Т
217	21	Employee Benefits	Credit	0.00	0.00	0.00	0.00	Т
22	2	LONG TERM LIABILITIES	Credit	0.00	0.00	0.00	0.00	S
221	22	BANK NOTES	Credit	0.00	0.00	0.00	0.00	S
3		STOCKHOLDER'S EQUITY	Credit	0.00	0.00	0.00	0.00	S
31	3	CAPITAL STOCK	Credit	0.00	0.00	0.00	0.00	S
3101	31	- Startup Capital	Credit	0.00	0.00	0.00	0.00	Т
32	2	RETAINED EARNINGS	Credit	0.00	0.00	0.00	0.00	S
3201	32	- Operating Profit	Credit	0.00	0.00	0.00	0.00	Т
3202	32	- Captial Gains	Credit	0.00	0.00	0.00	0.00	Т
3203	32	- Income Taxes	Credit	0.00	0.00	0.00	0.00	Т
3204	32	- Dividend Payments	Credit	0.00	0.00	0.00	0.00	Т
4		REVENUE	Credit	0.00	0.00	0.00	0.00	S
41	4	SALES OF INVENTORY	Credit	0.00	0.00	0.00	0.00	S
41001	41	- SALES: SHEET METAL	Credit	0.00	0.00	0.00	0.00	Т
41002	41	- SALES: ASSEMBLY	Credit	0.00	0.00	0.00	0.00	Т
411100	41	- SALES: STOCK	Credit	0.00	0.00	0.00	0.00	Т
411200	41	- SALES: HARDWARE	Credit	0.00	0.00	0.00	0.00	Т
411300	41	- SALES: OTHER	Credit	0.00	0.00	0.00	0.00	Т
42	4	- Service Revenue	Credit	0.00	0.00	0.00	0.00	т
43	4	MISCELLANEOUS REVENUE	Credit	0.00	0.00	0.00	0.00	S
43001	43	- Recovered Bad Debts	Credit	0.00	0.00	0.00	0.00	т
43002	43	- Billable Expenses	Credit	0.00	0.00	0.00	0.00	Т
43999	43	- Miscellaneous	Credit	0.00	0.00	0.00	0.00	т
45	4	- Freight Revenue	Credit	0.00	0.00	0.00	0.00	T
44	4	- Interest Revenue	Credit	0.00	0.00	0.00	0.00	Т
46	4	Sales Tax Revenue	Credit	0.00	0.00	0.00	0.00	т
48	4	- Discounts Allowed	Debit	0.00	0.00	0.00	0.00	Т
49	3	- Returns	Debit	0.00	0.00	0.00	0.00	т



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Sample General Ledger Chart of Accounts (Continued ...)

ACCT #	SUB #	ACCOUNT NAME	CR/DB	BG YR BAL	BG MO BAL	DEBIT	CREDIT	TYPE
5		EXPENSES	Debit	0.00	0.00	0.00	0.00	S
51	5	COST OF GOODS SOLD	Debit	0.00	0.00	0.00	0.00	S
51001	51	- COGS: SHEET METAL	Debit	0.00	0.00	0.00	0.00	Т
51002	51	- COGS: ASSEMBLY	Debit	0.00	0.00	0.00	0.00	Т
51100	51	- COGS: STOCK	Debit	0.00	0.00	0.00	0.00	Т
51200	51	- COGS: HARDWARE	Debit	0.00	0.00	0.00	0.00	Т
51300	51	- COGS: OTHER	Debit	0.00	0.00	0.00	0.00	Т
52	5	GENERAL & SDMN. EXPENSES	Debit	0.00	0.00	0.00	0.00	S
5201	52	Payroll & Benefits	Debit	0.00	0.00	0.00	0.00	S
52011	5201	PAYROLL	Debit	0.00	0.00	0.00	0.00	S
520111	52011	- Salaried Employees	Debit	0.00	0.00	0.00	0.00	Т
520112	52011	- Hourly Employees	Debit	0.00	0.00	0.00	0.00	Т
520113	52011	- Company Officers	Debit	0.00	0.00	0.00	0.00	Т
52012	5201	- Benefits	Debit	0.00	0.00	0.00	0.00	Т
5203	52	OPERATING EXPENSES	Debit	0.00	0.00	0.00	0.00	S
520301	5203	- Building Rent	Debit	0.00	0.00	0.00	0.00	Т
520302	5203	- Phone / Internet	Debit	0.00	0.00	0.00	0.00	Т
520303	5203	- Utilities	Debit	0.00	0.00	0.00	0.00	Т
520311	5203	- IT Consulting Fees	Debit	0.00	0.00	0.00	0.00	Т
520312	5203	- Accounting Services	Debit	0.00	0.00	0.00	0.00	Т
520313	5203	- Legal Services	Debit	0.00	0.00	0.00	0.00	Т
520314	5203	- Mfr Consulting Service	Debit	0.00	0.00	0.00	0.00	Т
520315	5203	- Casualty Insurance	Debit	0.00	0.00	0.00	0.00	Т
520316	5203	- Office Supplies	Debit	0.00	0.00	0.00	0.00	Т
5210	52	Taxes	Debit	0.00	0.00	0.00	0.00	S
52101	5210	- Property Tax	Debit	0.00	0.00	0.00	0.00	Т
52102	5210	- Sales and Use Tax	Debit	0.00	0.00	0.00	0.00	Т
52104	5210	- Wisc Franchise Tax	Debit	0.00	0.00	0.00	0.00	Т
52105	5210	- Employer SS Contrib.	Debit	0.00	0.00	0.00	0.00	Т
52106	5210	- State UC Tax	Debit	0.00	0.00	0.00	0.00	Т
52107	5210	- FUTA - Fes UC Tax	Debit	0.00	0.00	0.00	0.00	Т
52900	52	- Bad Debts	Debit	0.00	0.00	0.00	0.00	Т
52999	52	- Miscellaneous	Debit	0.00	0.00	0.00	0.00	Т
53	5	SELLING EXPENSE	Debit	0.00	0.00	0.00	0.00	S
54	5	FINANCIAL EXPENSES	Debit	0.00	0.00	0.00	0.00	S
54001	54	- Interest	Debit	0.00	0.00	0.00	0.00	Т
55	5	JOB OFFSET ACCOUNTS	Debit	0.00	0.00	0.00	0.00	S
55001	55	- Job Offset Expenses	Debit	0.00	0.00	0.00	0.00	Т
55002	55	- Job Rework Expenses	Debit	0.00	0.00	0.00	0.00	Т
55003	55	- Job Scrap Expenses	Debit	0.00	0.00	0.00	0.00	Т



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 Return to MAIN menu and select "Financials" option followed by "General Ledger > Bank Account" option to display the following screen form:



5. Select bank account to access followed by "OK" to display the following screen form and menu options:





6. Return to **MAIN** menu and select "*Financials*" option followed by "*General Ledger* > *Fixed Assets*" option to display the following screen form and menu options:

FIXED ASSETS	: Global Edge Wir	ndows De	emo Serve	er		-		×
Fixed-Asset-Mair	ntenance						FIXED AS	SETS
ASSET #:						j	<u>F</u> ind	
TYPE:		\sim					<u>N</u> ext	
REF #:								
NEW (Y/N):	\sim						Previe	ous
YEAR MFR:							Goto	,
CONDITION:							Updat	te
CATEGORY:							Transact	tions
MODEL #:							Option	
SERIAL #:							Option	15
LOC #:							Delet	e
DEPT #:							Repor	rt
WC #:							Work Qu	Jeue
OWNERSHIP:	~						COLUMN	
VENDOR #:							<u>u</u> ru-Net	work
CUSTOMER #:							QUIT	1
GLF1						_		
d Fixed Asset								OVR

7. Select "Find" option and retrieve "FIXED ASSET #: 1001" to display the following fixed asset record:

xed-Asset-Mai	intenance					FIXED ASS
					_	Add
ASSET #:		1001		Squaring Shear with Return Feed		<u>F</u> ind
TYPE:	Production	on	\sim			<u>N</u> ext
REF #:	SHEAR-1	1001				Previo
NEW (Y/N):	~					
YEAR MFR:						Goto
CONDITION:			_			Update
CATEGORY:	PRD	PROD	UCTION			Transacti
MODEL #:						Ontion
SERIAL #:						gjotan
LOC #:		1	CORP	HEADQUARTERS / MANUFACTURING		Delete
DEPT #:		8	MANU	FACTURING		Repor
WC #:		1	SHEAF	t-SAW		Work Qu
OWNERSHIP:		~				CPU-Netv
VENDOR #:						
USTOMER #:						QUIT



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8. Select "Transactions" option to display the following screen form and menu options:

Fixed-Asset-Ma	intenance					TRAN	ISACTION	TYPE
							Book	
ASSET #:		1001		Squaring Shear with	Return Feed		<u>T</u> ax	
TYPE:	Production	n	\sim				QUIT	
REF #:	SHEAR-10	001						
NEW (Y/N):	\sim							
YEAR MFR:]						
CONDITION:								
CATEGORY:	PRD	PRODU	ICTION					
MODEL #:								
SERIAL #:								
LOC #:		1	CORP.	HEADQUARTERS / MAN	UFACTURING			
DEPT #:		8	MANU	FACTURING				
WC #:		1	SHEAR	t-SAW				
OWNERSHIP:		~						
VENDOR #:								
CUSTOMER #:								
(#1of1)								

9. Select "Book" option to display the following screen form and menu options:

ed-Asset-Transactio	on-List					IRANSACTIO
						Add
RANS DATE	DESCRIPTION	TRANS TYPE	TRANS AMOUNT	G P		Update
						Examine
						Delete
						BFE
						Post
			_			Report
Transaction Found						QUIT
F4					*	

10. Select "Add" option to enter fixed asset transaction:

🐺 FIXED ASSETS: Global Edge Windows Demo Server	-		×
Fixed-Asset-Transaction-Edit Input Information For New Asset Transaction:		OK	
TRANS DATE: 03/26/2024 ILIA POSTED: N DESCRIPTION: GL INCLUDE: Y		Cancel	
TRANS TYPE: PERCENTAGE: % METHOD: TRANSACTION AMOUNT:			
Q.FS			
Enter Transaction Date:		(DVR



6.5 – Payroll Time & Attendance

This step illustrates the general ledger / bank account management process.

Workflow Steps

1. Select "Financials" on the Global Edge main menu:



2. Select "Payroll Time & Attendance > Employee Payroll" option on the Integrated Financials menu:

	enance							EMPLOY
								Add
EMPL #:			CLOCK #:		OFFICE PHONE:			Eind
PREFIX:					HOME PHONE:			<u>N</u> ext
NAME:					FAX PHONE:			Prev
FULL NAME:					CELL PHONE:			in <u>i</u> re.
E-MAIL:					PAGER PHONE:			Got
ADDR 1:					SS #:			Upda
ADDR 2:					SEX:	~		paYr
CT/ST/ZP:					BIRTH DATE:	þ	1.1.2 M	Earr
COUNTRY:				I	MARITAL STATUS:	~		Optio
		EM	PLOYEE STATUS:	~		TIME STAMP (Y/N):	~	Docum
LUNCH:	\sim	LUNCH TIME:		SHIFT EN	D:	MAX HRS		Repo
PROMPT:	\sim	LENGTH:	HOURS	SHIFT STAF	tT:			data
AGENCY:								Qere
OMP. PLAN:								Work Q
TERRITORY:			ľ		UNEMP:	~		QUI
LOC #:					WORK. COMP:	~		
DPT #:					EXEMPT:	~		
WC #:					OT PAY:	~		
SUPV:					PAY TYPE:		~	
TITLE:			OFFICER:	~	PERIOD:		~	
START:		11.3.21	LAST REVIEW:	1.1.2	PAY RATE:			
		DAYS	PAYROLL ACCT:		BILL RATE:			
PROB:		~			COST RATE:			
PROB: EEO:								
PROB: EEO: OCC:		\sim			FILE #:			



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3. Select "Find > Employee" option to display the following employee record:

									_	_	d
EMPL #:	1001	CLOCK	#:			OFFICE PHONE:	608-555-855	5		··· Eind	1
PREFIX:	Mr.					HOME PHONE:	414-555-6666	5		<u>N</u> ex	đ
NAME:	Larry	D Colbourn				FAX PHONE:				Pres	vi
FULL NAME:	Larry D. Colbourn					CELL PHONE:					
E-MAIL:	larry.d.colbourn@ldcman	ufacturing.com				PAGER PHONE:			_	Got	tc
ADDR 1:	8555 West State Street					SS #:	555-55-8555	_	_	Upda	at
ADDR 2:		1 (1)			_	SEX:	Male	~		paYr	rc
CT/ST/ZP:	Madison	WI	53706			BIRTH DATE:	03/27/1972	11 juli		Ontio	~
COUNTRY:	United States of America				M/	ARITAL STATUS:	Single	×			0
		EMPLOYEE STAT	US: Full	-Time V			TIME STAMP ((/N):		Docum	he
LUNCH:		IE:		SI	HIFT END	-	MAX HRS			Repo	or
PROMPT:	LENGT	H: HO	I ID S	01.177	T CTADT						
			ono	SHIP	TSTART	•			_	deLe	et
AGENCY:			0100	SHIP		·			-	deLe Work O	et
AGENCY: DMP. PLAN:	1 Standard Plan	ייין אין אין אין אין אין אין אין אין אין		541						<u>d</u> eLe <u>W</u> ork Q	et Qu
AGENCY: DMP. PLAN: ERRITORY:	1 Standard Plar	n n		SHIP		UNEMP:	Yes 🗸		_	deLe Work Q	et Qu
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AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #:	1 Standard Plan	DQUARTERS / MANU	JFACTURIN	SHI IG		UNEMP: WORK. COMP: EXEMPT:	Yes > Yes > Yes >			deLe	et 2u IT
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #:	1 Standard Plan	DQUARTERS / MANU	JFACTURIN	SHIF NG		UNEMP: WORK. COMP: EXEMPT: OT PAY:	Yes Yes Yes Yes No			<u>d</u> eLe <u>W</u> ork Q <u>Q</u> UI	et 2u 17
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #: SUPV:	1 Standard Plan	DQUARTERS / MANU	JFACTURIN	VG		UNEMP: WORK, COMP: EXEMPT: OT PAY: PAY TYPE:	Yes > Yes > Yes > No > Salaried	~		<u>d</u> eLe <u>W</u> ork Q <u>Q</u> UI	et 2u I∏
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #: SUPV: TITLE:	Standard Plan CORP. HEAI ADMINISTR CEO	DQUARTERS / MANU ATION	JFACTURIN FFICER:	NG		UNEMP: WORK, COMP: EXEMPT: OT PAY: PAY TYPE: PERIOD:	Yes > Yes > Yes > No > Salaried Bi-Weekly	~		deLe Work Q	et 2u IT
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #: SUPV: TITLE: START:	1 Standard Plan CORP. HEAI 1 CORP. HEAI ADMINISTR CEO 02/01/2012 IX8	DQUARTERS / MANU ATION O LAST F	FFICER: REVIEW:	96		UNEMP: WORK. COMP: EXEMPT: OT PAY: PAY TYPE: PERIOD: PAY RATE:	Yes > Yes > Yes > No > Salaried Bi-Weekly	~ ~ ;5500.00	_	dete Work Q QUI	≥t 2u 11
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #: SUPV: TITLE: START: PROB:	Standard Plan Standard Plan CORP. HEAI ADMINISTR AD	DQUARTERS / MANL ATION O LAST F PAYROL	FFICER: REVIEW: L ACCT:	vG [] 520113		UNEMP: WORK, COMP: EXEMPT: OT PAY: PAY TYPE: PERIOD: PAY RATE: BILL RATE:	Yes > Yes > Yes > No > Salaried Bi-Weekly	~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~ ~	_	deLe Work Q QUI	≥t 2u IT
AGENCY: DMP. PLAN: ERRITORY: LOC #: DPT #: WC #: SUPV: TITLE: START: PROB: EEO:	1 Standard Plar CORP. HEAI ADMINISTR CEO 02/01/2012 IIXAI DAYS NR	DQUARTERS / MANL ATION O LAST F PAYROL	FFICER: REVIEW: L ACCT:	KG		UNEMP: WORK, COMP: EXEMPT: OT PAY: PAY TYPE: PERIOD: PAY RATE: BILL RATE: COST RATE:	Yes > Yes > Yes > No > Salaried Bi-Weekly	× × 5500.00	_	deLe Work Q	et Qu

4. Select "Payroll > Hours" option to display the following screen form and menu options:



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5. Return to *Global Edge* main menu and select "Time" option:



6. Select "Find" option and retrieve EMPLOYEE #: "1001" which will display the following menu options:

ne-Hour-Entry	y										··· <u>N</u> ext
MPLOYEE #:		1001			CLOCK #:			WO	RK DATE		··· Previo
NAME:	Larry		D	LAST:	Colbourn		03/26/	2024 [1134]	Tuesday		Goto
LOC #:	1	CORP. HE	ADQUARTE	RS / MANUE	ACTURING		_	WEE	K ENDING		Forward
DEPT #:	1	ADMINIST	RATION				03/30/	2024 [분美의]	Saturday		De di
WC #:											Back
YPE	ACTIVIT	Y	PROJECT	JOB/REFER	ENCE	START	END	HOURS	BILL	APPR	Date
								_			Hours
								_			Expense
								_			benefit
											Vacatio
Sunday	Monda	ау Т	uesday	Wednesd	ay Thursday	Y Friday		aturday			Approv
0711 401 5									1		posT
BILLABLE:		0.00	0.00	%		WEEK IC	JTAL:	0.00			Reports
											QUIT
#1of1)											



7. Select "Hours > Add" option to display the following screen form to add time worked:



8. Select "OK" when done which will return to the following screen:



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9. Select "QUIT", then select "Expenses" to display the following screen form and menu options:

🐖 TIME & EXPEN	ISE ENTRY: Global Edge Windo	ws Demo Server					-	o x
Expense-Entry-Lis	st							EXPENSES
								Add
APPROVED:	\$0.00 UNAPPROVED:	\$0.00	POSTED:	\$0.00	YEAR:	2024		Previous
DATE	EXPENSE TYPE	TRAN #	AMOUNT	BILLABLE	APPROVED	POSTED		<u>N</u> ext
				_				Update
				-				View
				_				Delete
				-				QUIT
TIMD							v	
Add Expense Entry								OVR

10. Select "Add > Project" option to display the following screen to enter expense item:

IME & EXPENSI	E ENTRY: Globa	al Edge Windows Den	no Server		-		×
Project-Expense-En	try						
Update Expense No	te:, then Press	[OK]:				ОК	
CATEGORY:	P Project		TYPE:	HTL		Canc	el
ACCOUNT #:	45000001			AMOUNT: \$150.00		Inse	t
DATE:	03/26/2024					Apper	nd
SO #:						Delet	
PROJECT #:	100	1 LOCATION:	1	CORP. HEADQUARTERS / MANUFACTURI		Dele	
PHASE #:		1 DEPARTMENT:	1	ADMINISTRATION		F7	
ECO #:		WORK CENTER:				F8	
BILLABLE:	Yes \vee	APPROVED:	No \sim	TRANSACTION #:			
1 Hotel Expe	ense						
TIM6							
Enter Notes:							OVR .:

11. Select "OK" to return to the "Expense-Entry-List" screen form:

xpense-Entry-List								EXPENSES Add
APPROVED:	\$0.00 UNAPPROVED:	\$150.00	POSTED:	\$0.00	YEAR:	2024		<u>P</u> revious
DATE	EXPENSE TYPE	TRAN #	AMOUNT	BILLABLE	APPROVED	POSTED		Next
3/26/24		2	\$150.00	Yes	No	No		Update
								View
								<u>D</u> elete
								QUIT
MD							*	

