



**Patent Number**

7,975,835 B2

8,272,502 B2

**MODEL NUMBER**

EGD-125

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**SERIAL NUMBER**

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**MOTOR MODEL NUMBER**

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**MOTOR SERIAL NUMBER**

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9/22/2014

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## LIMITED WARRANTY

Pax Products Inc. (the "Company") warrants to the original purchaser of each Pax Conveyor that the conveyor will be free from defects in material and workmanship, under normal and proper installation, use and maintenance in accordance with the Company's instructions, for a period of 1 year after the date of shipment from the Company's plant.

Purchaser's exclusive remedy and the Company's sole liability under the above warranty or in connection with any other claim relating to the Pax Conveyor shall be limited to repair, or at the Company's option, the replacement or refund of the purchase price, of any Conveyor or part or component thereof which is returned to the Company freight prepaid and which is defective in material or workmanship. Defective Conveyors or parts or components thereof which the Company replaces become the property of the company. All Conveyors or parts or components thereof which are returned to the purchaser will be returned freight collect.

EXCEPT AS EXPRESSLY STATED ABOVE, THE COMPANY MAKES NO WARRANTY, EXPRESSED OR IMPLIED, WHETHER OF MERCANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR USE OR OTHERWISE ON ANY CONVEYOR OR ANY PARTS OR LABOR FURNISHED DURING THE SALE, DELIVERY, OR SERVICING OF ANY CONVEYOR.

IN NO EVENT SHALL THE COMPANY BE LIABLE TO ANY PURCHASER OR PERSON CLAIMING THROUGH ANY PURCHASER FOR ANY SPECIAL, INDIRECT, INCIDENTAL, OR CONSEQUENTIAL DAMAGES ARISING OUT OF, OR AS A RESULT OF THE SALE, DELIVERY, NONDELIVERY, SERVICING, USE, OR LOSS OF USE OF ANY PAX CONVEYOR OR PART THEREOF OR FOR ANY CHARGES OR EXPENSES OF ANY NATURE INCURRED WITHOUT THE COMPANY'S WRITTEN CONSENT EVEN THOUGH THE COMPANY HAS BEEN NEGLIGENT. IN NO EVENT SHALL THE COMPANY'S LIABILITY UNDER ANY CLAIM MADE BY ANY PURCHASER OR PERSON CLAIMING THROUGH ANY PURCHASER EXCEED THE PURCHASE PRICE OF THE PAX CONVEYOR OR PART OF COMPONENT THEREOF IN RESPECT OF WHICH DAMAGES ARE CLAIMED.

Purchaser shall promptly inspect each conveyor upon receipt. Claims under the above warranty shall be made by contacting the Company at P.O. Box 257, 5097 Monroe Rd. Celina, OH 45822. Attn: Service Department (1-800-733-6930) or (419) 586-6948. No claim under the above warranty will be allowed unless made 10 days after the date of the warranty period on which the defect is or should have been discovered by the purchaser.



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## DESIGN CHANGES

Consistent with sound engineering principals and recognized practices, Pax Products Inc. reserves the right to discontinue or change specifications, designs, and materials at any time without notice.

Design differences or changes that exist between the conveyor received and the conveyor illustrated in the manual are the result of design improvements or special arrangements contracted for at the time of purchase. Every effort is made to keep the manual consistent with the majority of the systems supplied.



## SAFETY

UNDER NO CIRCUMSTANCES SHOULD THE PAX CONVEYOR OR ANY COMPONENT BE PLACED IN SUCH A MANNER THAT COULD CAUSE POSSIBLE PERSONAL INJURY OR DAMAGE TO ANY EQUIPMENT.

DO NOT OPERATE CONVEYOR WITHOUT ALL COVERS IN PLACE.

CONVEYOR MUST BE INSTALLED AND OPERATED WITHOUT OBSTRUCTIONS TO THE MOVEMENT. SPECIFICALLY, THE OPERATOR MUST BE AWARE AND AVOID THE PINCH POINTS ASSOCIATED WITH THE NORMAL OPERATION OF THE CONVEYOR.

WHEN CONNECTING AND DISCONNECTING POWER TO THE UNIT, THE UNIT SHOULD BE TURNED OFF PRIOR TO UNPLUGGING/PLUGGING THE UNIT INTO THE SPECIFIED POWER SOURCE.

KEEP HANDS, LOOSE CLOTHING, JEWELRY ETC., AWAY FROM DISCHARGE END OF CONVEYOR AT ALL TIMES.

DUE TO POSSIBLE REMOTE PAX CONVEYOR CONTROLS, CONVEYOR MAY START OR STOP WITHOUT WARNING.

MAKE SURE POWER IS DISCONNECTED BEFORE SERVICING, TROUBLESHOOTING OR MOVING ANY PAX CONVEYOR.

NEVER REACH BETWEEN THE CONVEYOR AND THE DIE WHILE THE CONVEYOR OR THE PRESS IS IN OPERATION.

CONVEYORS SHOULD BE PLACED SO THAT NO COMPONENT OR COMBINATION OF COMPONENTS INTERFERE WITH THE NORMAL OPERATION OF ANY MACHINE.

VERIFY ALL CONNECTIONS AND BOLTS ARE SECURED. TIGHTEN ANY FASTENERS THAT MAY BE LOOSE BEFORE OPERATING

INSPECT TEE SLOT OR FLUSH MOUNTING BRACKETS FOR LOOSE FASTENERS. A SECURED MOUNTING BRACKET IS NECESSARY FOR SAFE OPERATION.

TRAYS SHOULD BE IN GOOD WORKING CONDITION. MAKE SURE ANY AND ALL BRACKETS ARE IN PLACE AND TIGHT. ANY QUICK CONNECT MOUNTING BRACKETS SHOULD FIT TIGHTLY ONTO THE SHAKER ARM. TRAYS SHOULD BE FREE OF SHARP EDGES AND MOVE FREELY IN THE SET-UP.

## EGD CONVEYOR INSTALLATION

### **SECTION 1: PHYSICAL PLACEMENT**

The Pax Elliptical Gear Drive, EGD, Conveyor was designed for under die material removal. The EGD-125 conveyor drive unit is mounted to the bolster of the press or secured in the T-slot, depending on the choice of mounting bracket. Quick connect trays are placed between the bolster and the lower die section and between parallels. The quick connect trays are secured to the EGD shaker arm tubes by pressing down on the tray until the tray is seated firmly over the tube.

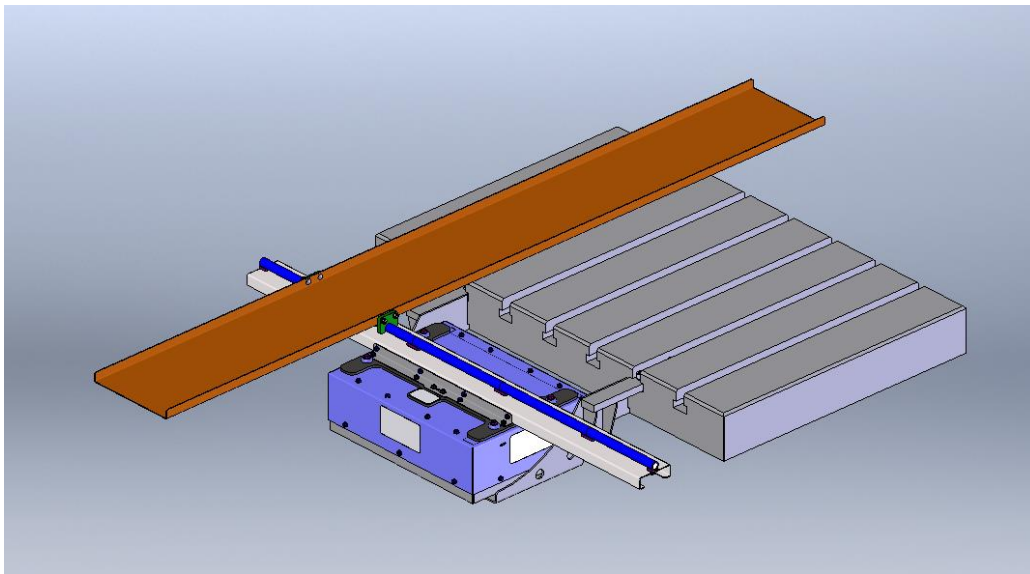


Figure 1: EGD-125 MOUNTED TO T-SLOTTED TABLE





## **SECTION 2: ELECTRICAL REQUIREMENTS**

Each Pax EGD-125 Conveyor comes standard equipped with a Variable Frequency Drive, VFD, and a power cord for 120 or 240 VAC single phase power source. Use of a power source other than that listed may cause damage to the conveyor motor and will void the warranty. Alternative VFD options are available for 240 VAC 3 phase and 480 VAC 3 phase inputs.

The Pax EGD-125 Conveyor is configured from the factory to operate using a local start command. The conveyor unit can be operated as a stand-alone unit by using the push button switch to manually turn the unit on and off.

Additionally, the conveyor unit can be tied to the press controls so that the press operation dictates whether the conveyor is on/off allowing reduced energy consumption and un-necessary wear on the conveyor drive when the press is not in operation. This is done by connecting to the VFD remote start command via a dry-contact. Pax Products strongly recommends the use of a time delayed relay contact to avoid excessive starts and stops when using the press controls to turn the conveyor unit on/off.

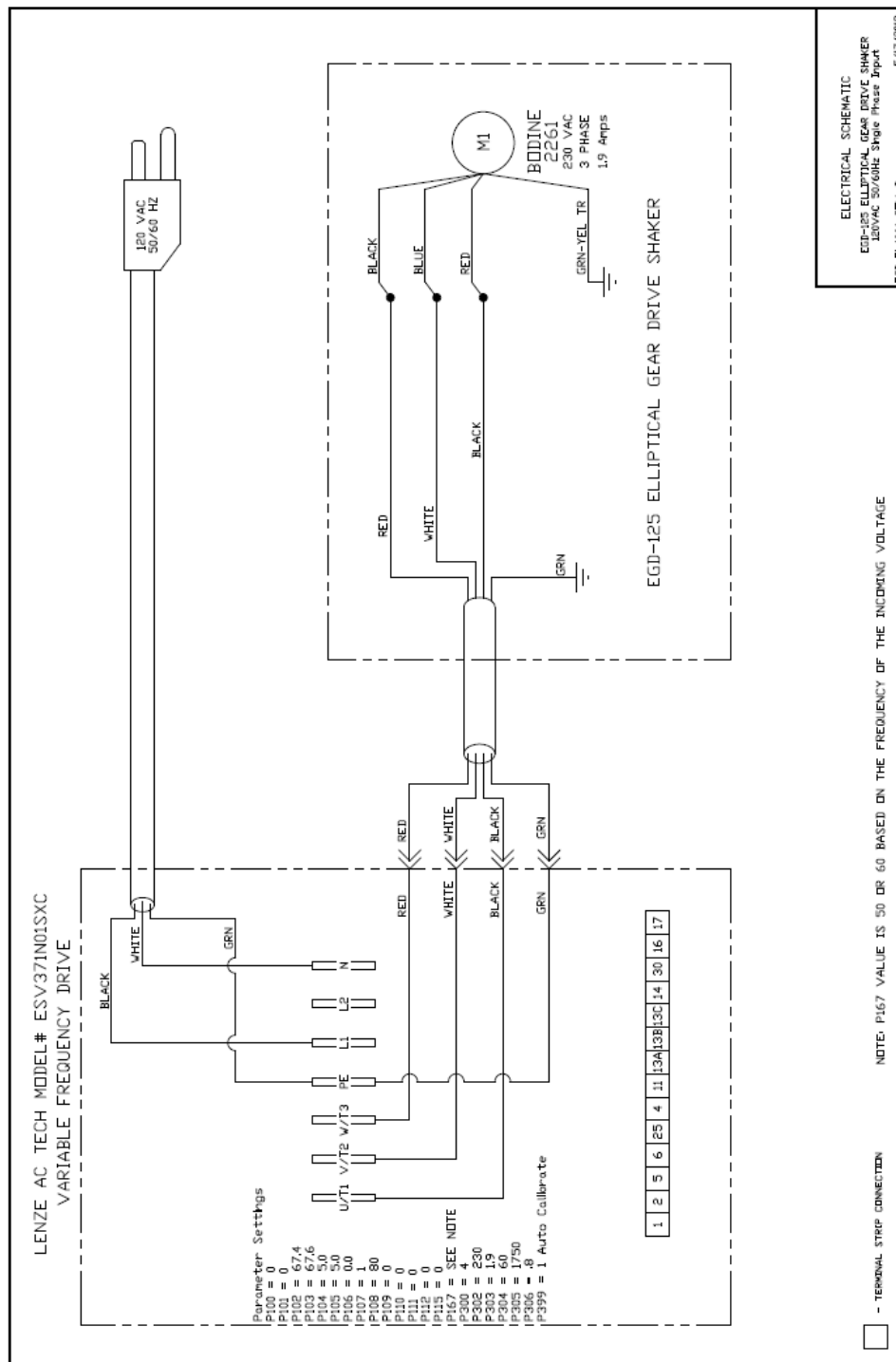


Figure 2: EGD-125, 50/60 Hz WITH LOCAL START WIRING DIAGRAM

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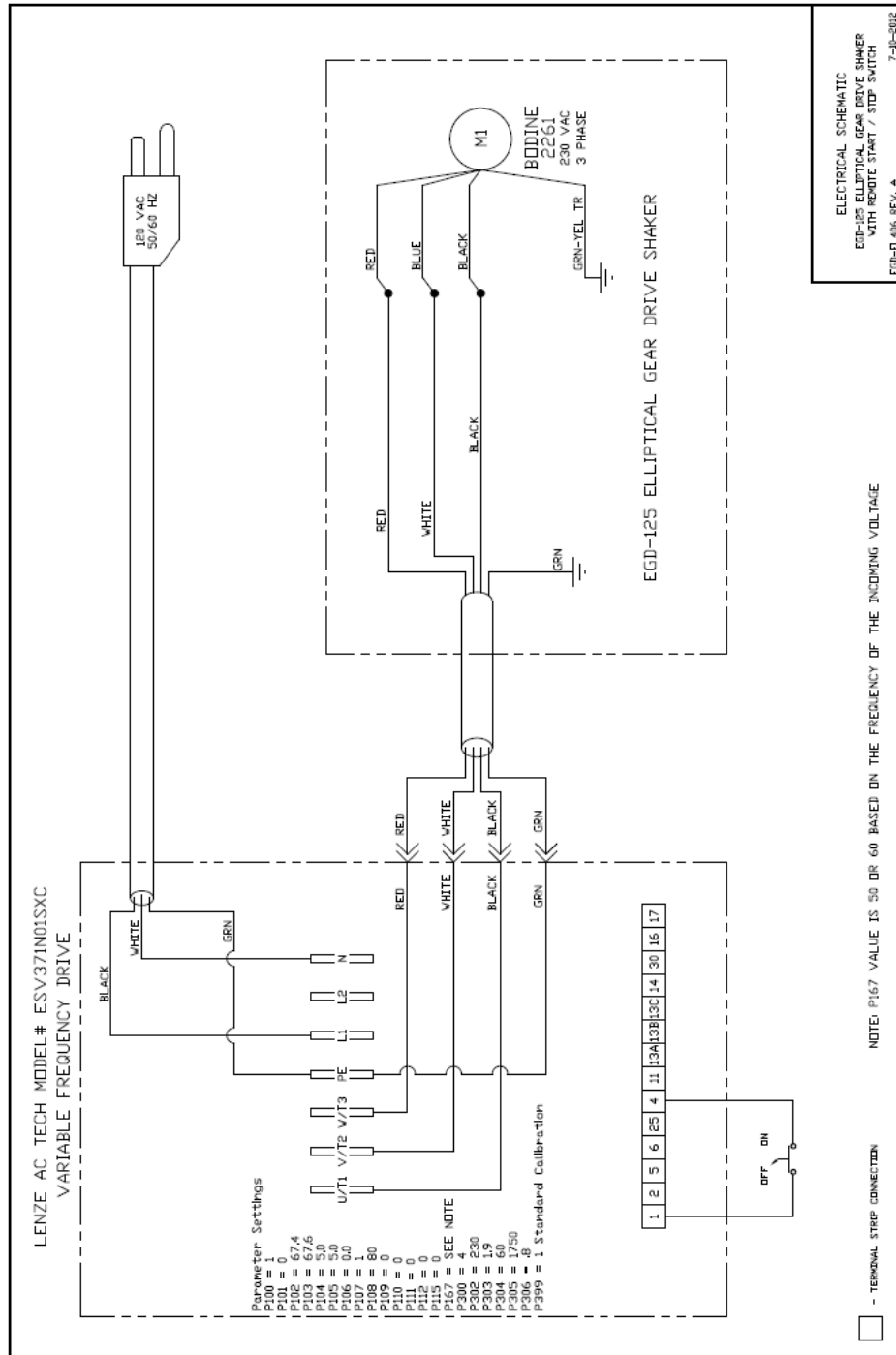


Figure 3: EGD-125, 50/60 Hz REMOTE START WIRING DIAGRAM



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## **CONVEYOR OPERATION**

### **SECTION 1: CONVEYOR OPERATION**

The primary function of the Pax EGD-125 Conveyor is to remove material from under the die and is specially designed for the stamping environment. The rugged construction will tolerate the abuse commonly found in press rooms. The rugged design of the shaker arm allows for quick attachment of trays that may be ordered through Pax. Custom dimensioned, textured trays with our quick connect brackets and wear pad may be ordered for your specific application.

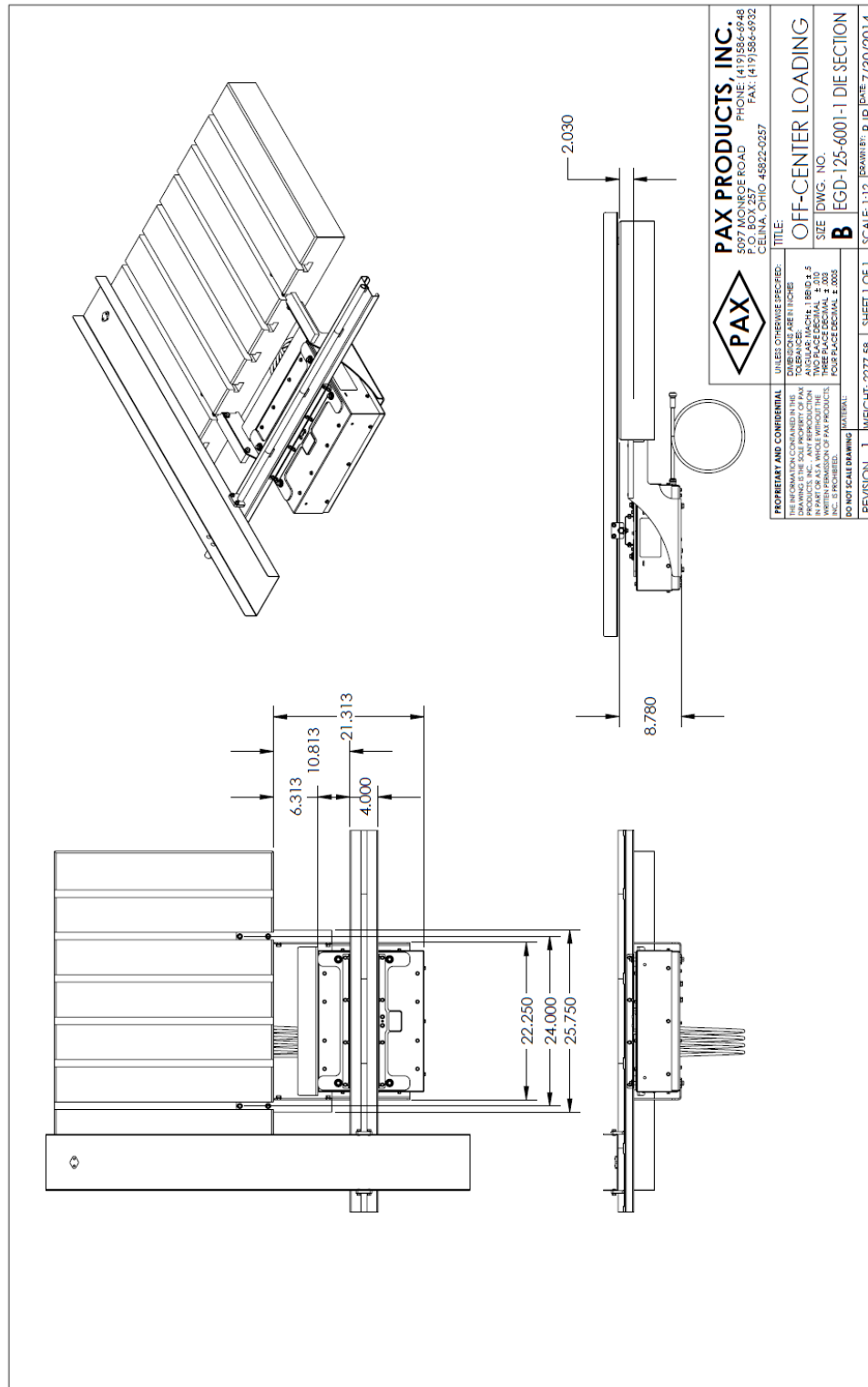
The Pax EGD Conveyor product line uses a patented design to attain the unique motion presented in these machines. A set of elliptical gears are used to transfer constant rotary motion from the gearmotor into a smooth, constantly varying output speed. This unique output motion enhances the natural behavior of the slider-crank mechanism found in the EGD Conveyors.

The conveyor operates at approximately 100 cycles per minute with part conveyance speeds up to 25 feet per minute, depending on the type of part being conveyed and the type and cleanliness of the tray.

The EGD-125 Conveyor moves material in a single direction. In order to change the direction the material moves, the EGD-125 drive unit can be turned 180 degrees on its mounting fixture by removing and reinstalling 4 bolts.

The elliptical gears transmit power from the gearmotor to the gearbox output crank. The output crank from the gearbox acts as a slider-crank mechanism to the EGD carriage. The shaker arm is mounted to the carriage which transmits the shaking motion to the trays.

All Pax EGD Conveyors have a capacity rating based on the tray weight. The EGD-125 unit has a maximum tray capacity of 125 lbs (56.8 kgs) and no more than 75% of the tray load can be evenly distributed on either side of the unit. The EGD-125 unit supports a maximum shaker arm length of 120 inches (3048 mm). Additional consideration should be given to off-center loading or unbalanced loading of the conveyor. Questions on your particular application and setup can be directed to a Pax sales representative or call the factory direct and ask for technical assistance at 1-800-733-6930 or (419) 586-6948.





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## MAINTENANCE

### **SECTION 1: BEARINGS**

Pax EGD Conveyors utilize a combination of sealed and open bearings in their design. In the EGD-125 model, sealed bearings are used on the input and output linkage arms and the rocker support blocks. Open bearings are used inside the gearbox to support the output shaft and are lubricated, along with the elliptical gears, by a fixed-fill volume of gear oil. The gearbox is sealed on the output shaft using a shaft seal.

The Thompson linear ball bearings are a closed bearing and can be greased. The bearings can be greased via 4 grease inserts on the unit. The grease inserts may be accessed through slots on the top cover. It is recommended to use *Shell ALVANIA EP Grease 2* or equivalent. **Application of fresh grease is recommended on a monthly basis to prolong the life of your bearings.** Please refer to Figure 5 for grease locations. Increased frequency of grease application should be considered based on heavy usage and the cleanliness of the environment of operations.

The oil in the EGD-125 drive unit protects and prolongs the life of your system. A unit operating within the stated capacity and in a clean environment should replace the oil every 5 years. Continuous operation, cleanliness and heavy loading conditions require more frequent oil change, approximately every 2 years. The fixed-fill gear oil located in the gearbox assembly may be filled through the 1/8" NPT Plug located on the top of the gearbox assembly. It is recommended to use *Shell OMALA – Advanced Synthetic Industrial Gear Oil S4 GX 220* or equivalent. To change the oil, the top cover must be removed first. This requires removing the top plate and slug shield, if equipped. Remove the magnetic pipe plug from the gearbox and install a 1/8" pipe fitting attached to a small hose. The magnetic plug is accessible from underneath the unit and does not require removing the gearbox assembly from the base plate. Remove the plug on the top of the gearbox assembly to begin draining. Replace the magnetic plug into the base plate and add 350 mL, 11.8 oz, of gear oil. Replace the 1/8" NPT plug and reinstall the top cover, slug shield and top plate.

**NOTE:** While the top cover and slug shield are removed, inspect the linear rails for signs of wear or damage.

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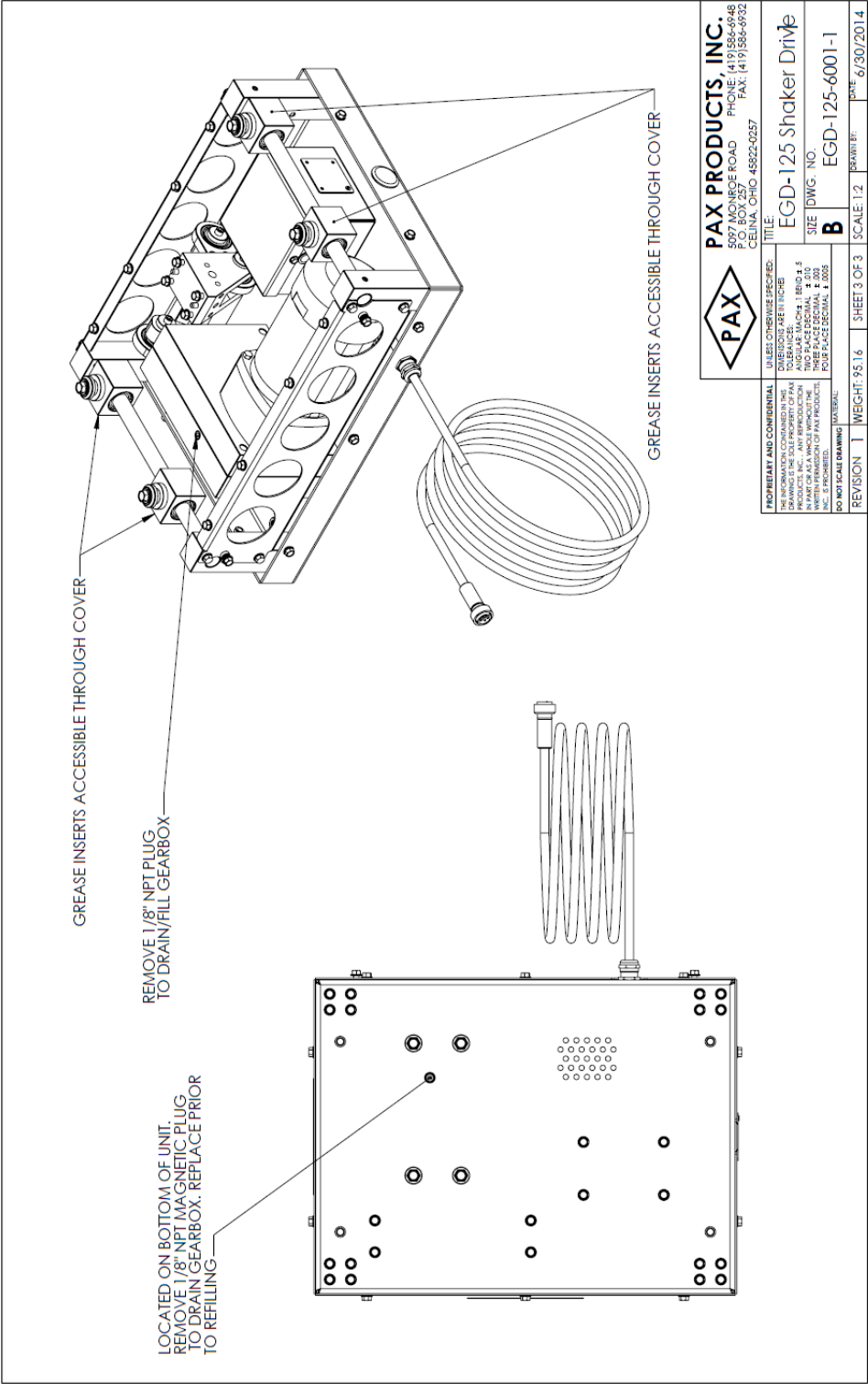


Figure 5: INSTRUCTIONS FOR LUBRICATING THE LINEAR BEARINGS



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## SECTION 2: TRAY, WEAR PAD, AND QUICK CONNECT BRACKET ASSEMBLY

The trays, wear pads and quick connect brackets should be free of cracks or dents. The bolts holding the wear pad in place should be below the wear surface. If the top of the fasteners are at the same level as the wear surface, the opposing surface will experience metal-to-metal contact. Additional wear pads may be ordered through Pax.

The quick connect brackets should attach firmly to the tubes on the shaker arm. A loose connection to the shaker arm could cause the tray to detach during operation. The quick connect bracket should be replaced and may be ordered through Pax.

Inspect the trays for dents or damage that may impede performance of the conveyor. If necessary, replace the tray to insure proper performance. Replacement and new trays may be ordered through Pax.

## SECTION 3: GENERAL

The Pax EGD Conveyors should routinely be cleaned and inspected for wear or damage. A good time to do this may be during die changes. A routine inspection should cover the following:

- 1) Make sure the power cord has no exposed wires or visible signs of damage to the cord. Inspect the plug and where the plug connects to the VFD for damage and dirt. Inspect the cord going from the VFD to the unit for damage as well and verify the cord is securely fastened prior to use. Replace or clean as needed. **NOTE: The EGD unit must be switched off prior to unplugging the unit. Failure to do so may damage VFD and/or motor.**
- 2) Make sure all the fasteners are tight. Since conveyors are used in high vibration environments, a fastener may vibrate loose. Use caution not to over-tighten bolts that are threaded into aluminum.
- 3) Ensure the top cover and slug shield are in good working order and securely fastened in place. These protective covers must remain in place at all times during operation.
- 4) Ensure the shaker arm assembly is secure to the carriage and all fasteners are tight. Use caution not to over-tighten bolts that are threaded into aluminum.



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## PARTS LIST:

ORDER REPAIR AND REPLACEMENT PARTS FROM:

PAX PRODUCTS INC.  
P.O. BOX 257  
5097 MONROE RD.  
CELINA, OH 45822  
1-800-733-6930 PHONE  
(419) 586-6948 PHONE  
(419) 586-6932 FAX

PLEASE PROVIDE THE MODEL NUMBER AND SERIAL NUMBER WHEN ORDERING

**NOTE: SUBSTITUTING PARTS NOT AUTHORIZED BY PAX PRODUCTS INC.  
MAY CAUSE A DETERIORATED PERFORMANCE OF THE EGD  
CONVEYOR AND WILL VOID WARRANTY.**

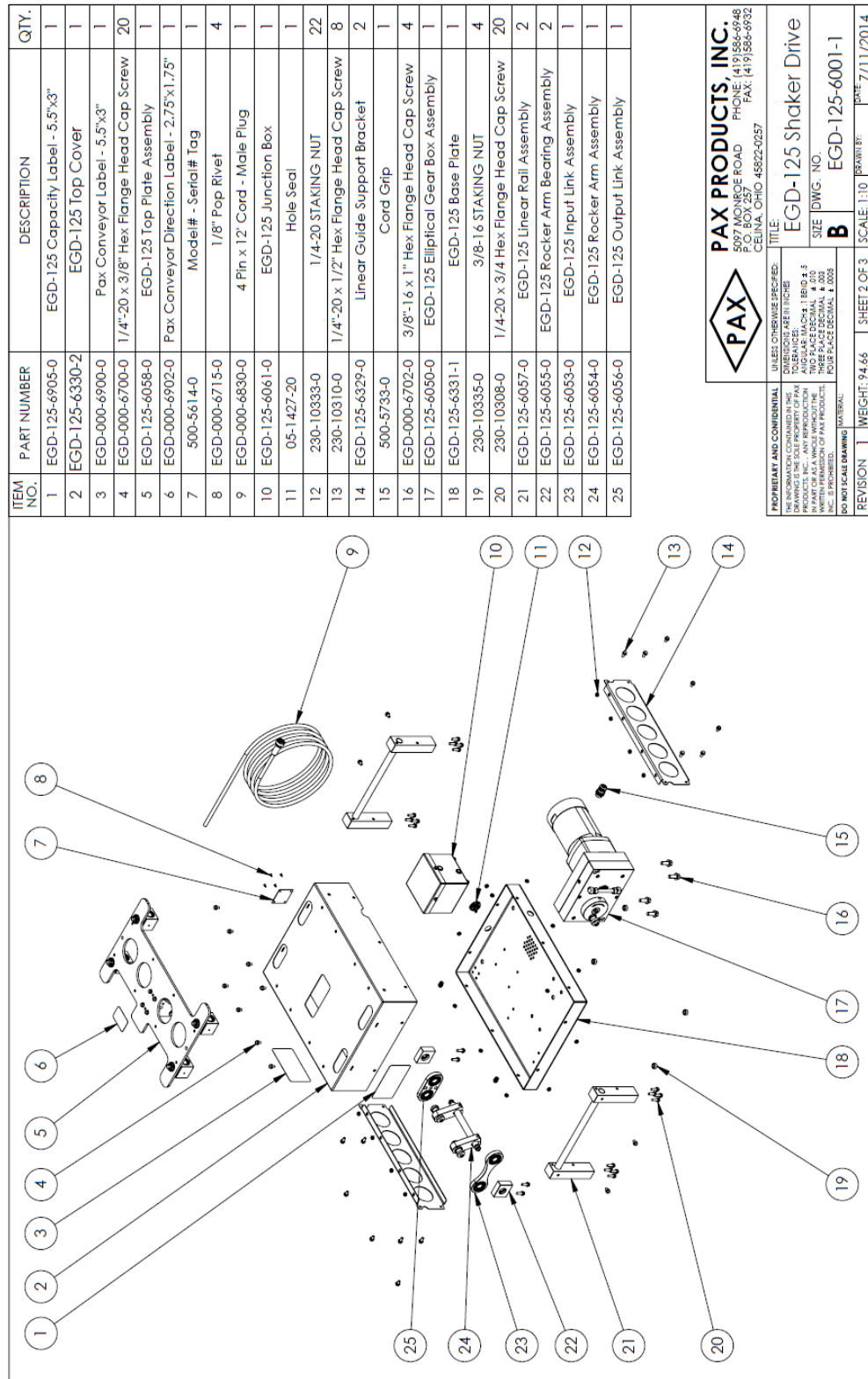


Figure 6: EGD-125 DRIVE UNIT ASSEMBLY



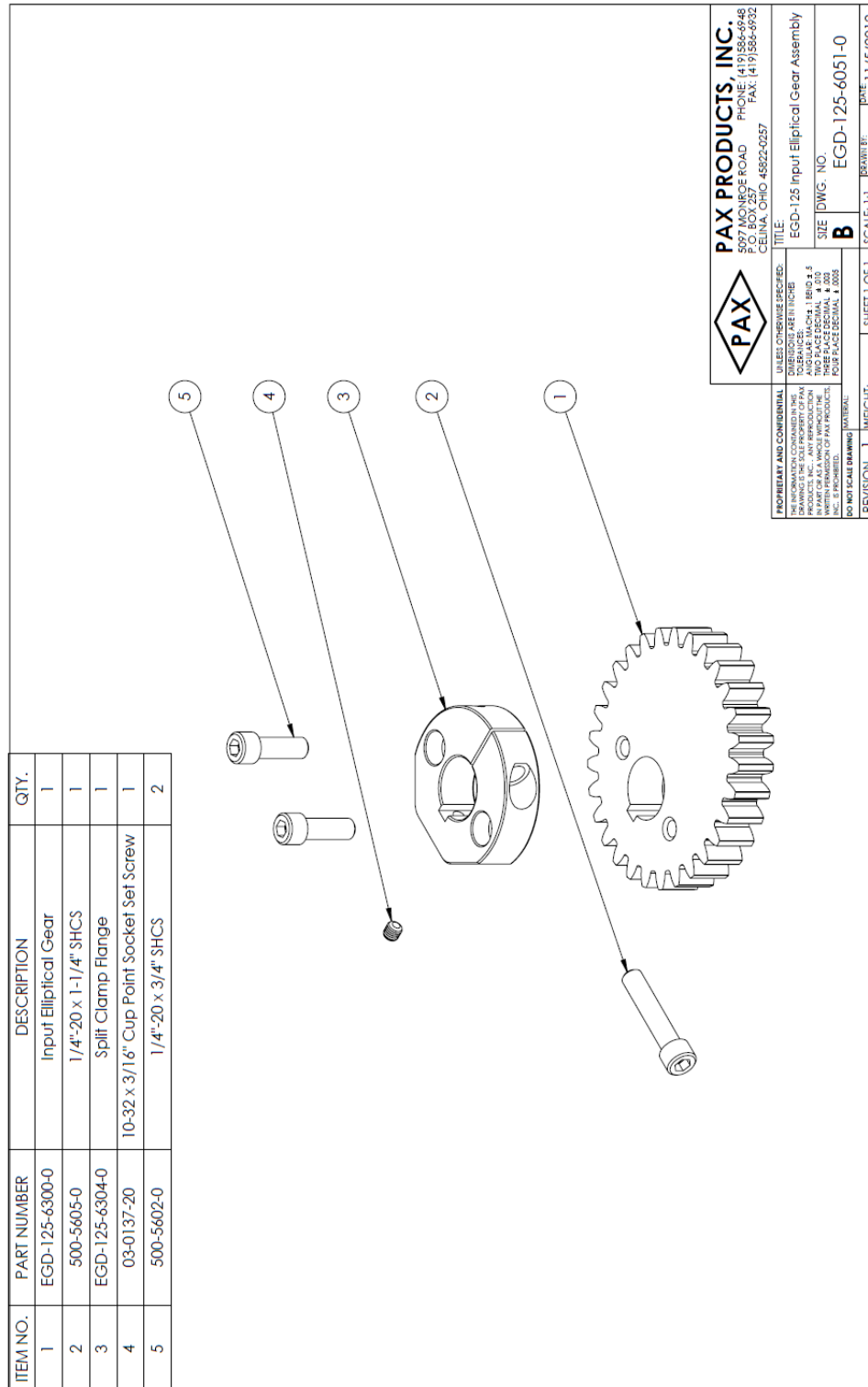


Figure 8: EGD-125 INPUT GEAR SUB-ASSEMBLY

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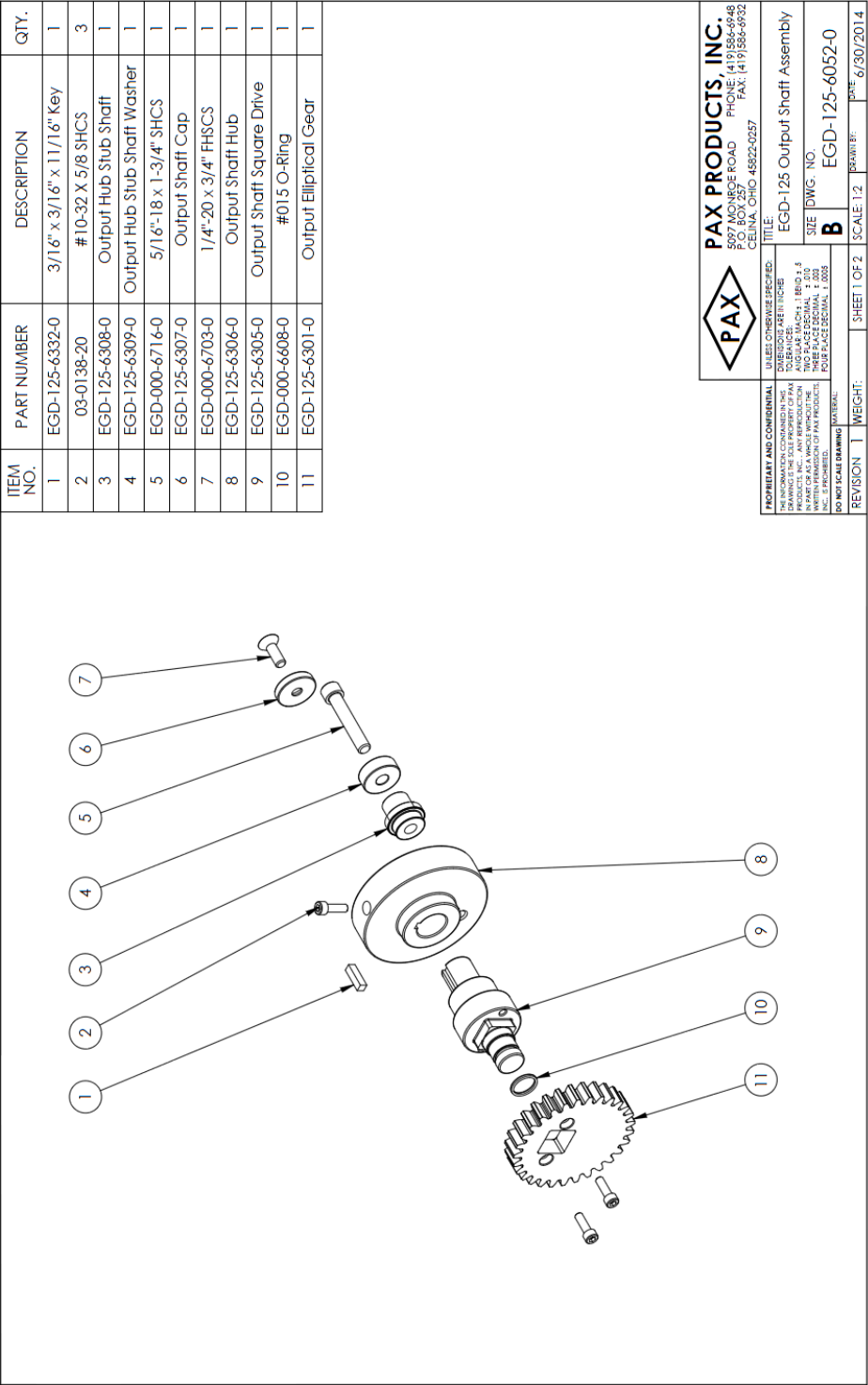


Figure 9: EGD-125 OUTPUT SHAFT ASSEMBLY

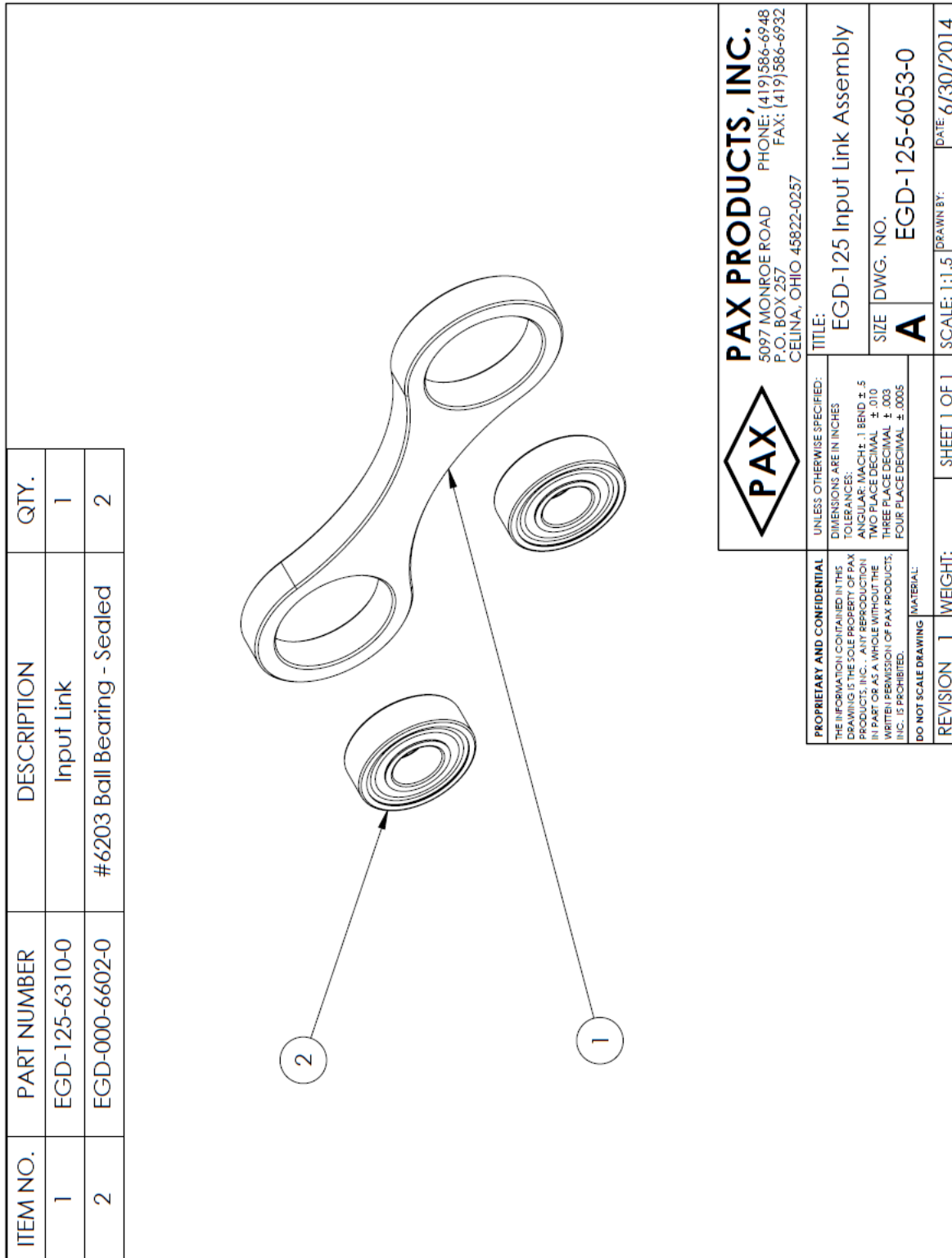


Figure 10: EGD-125 INPUT LINK ASSEMBLY



**PAX**  
CONVEYORS <sup>TM</sup>



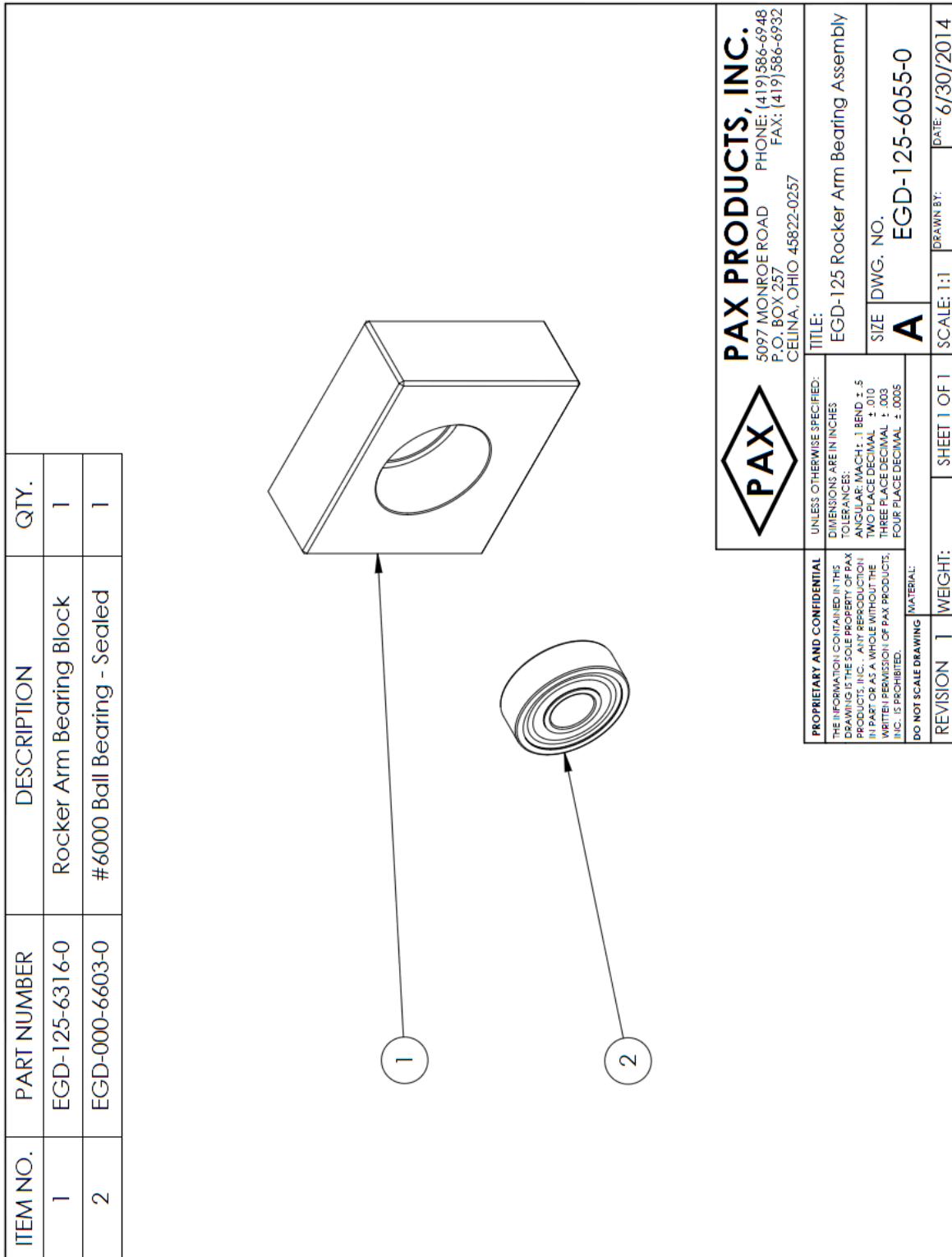


Figure 12: EGD-125 ROCKER BEARING BLOCK ASSEMBLY



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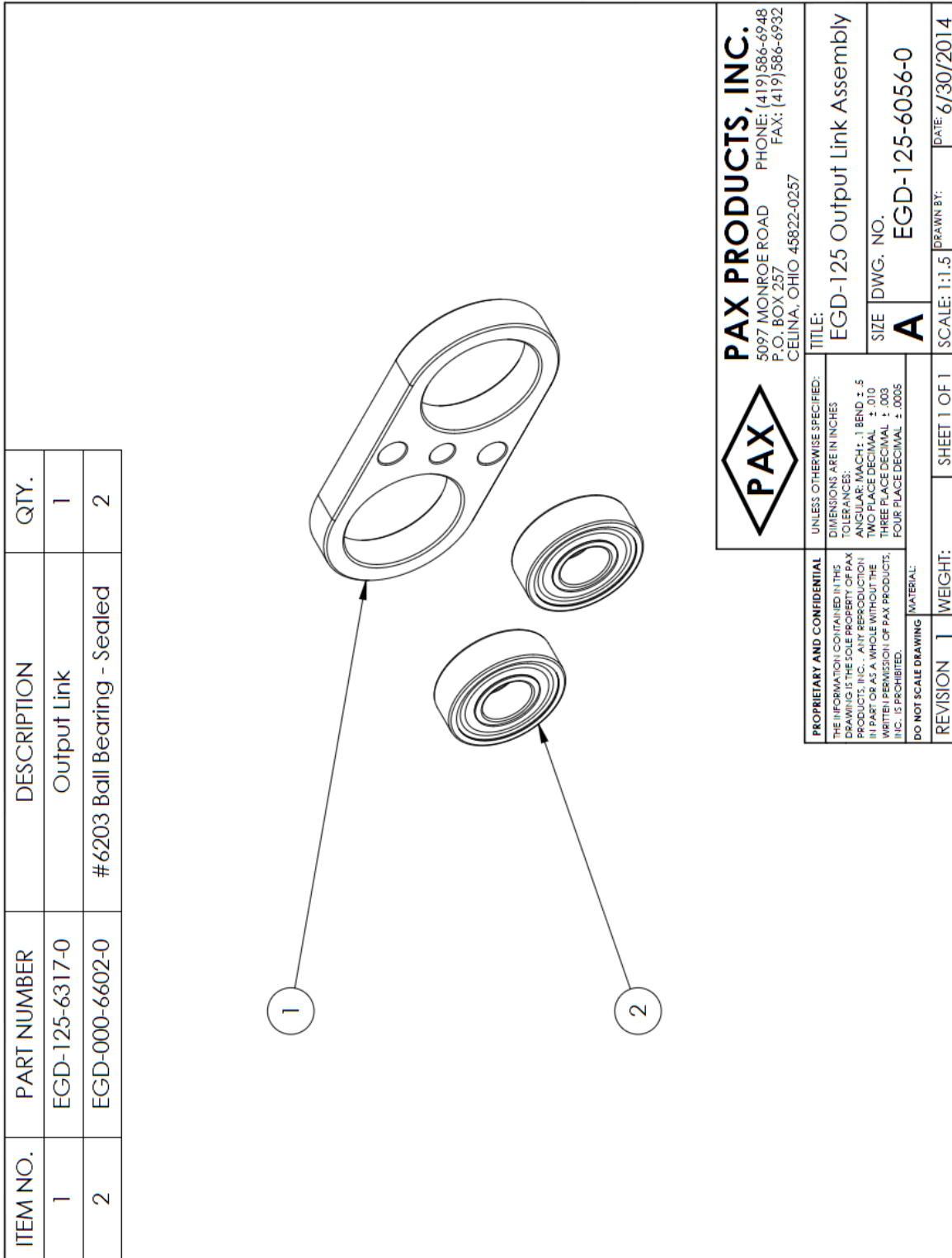


Figure 13: EGD-125 OUTPUT LINK ASSEMBLY

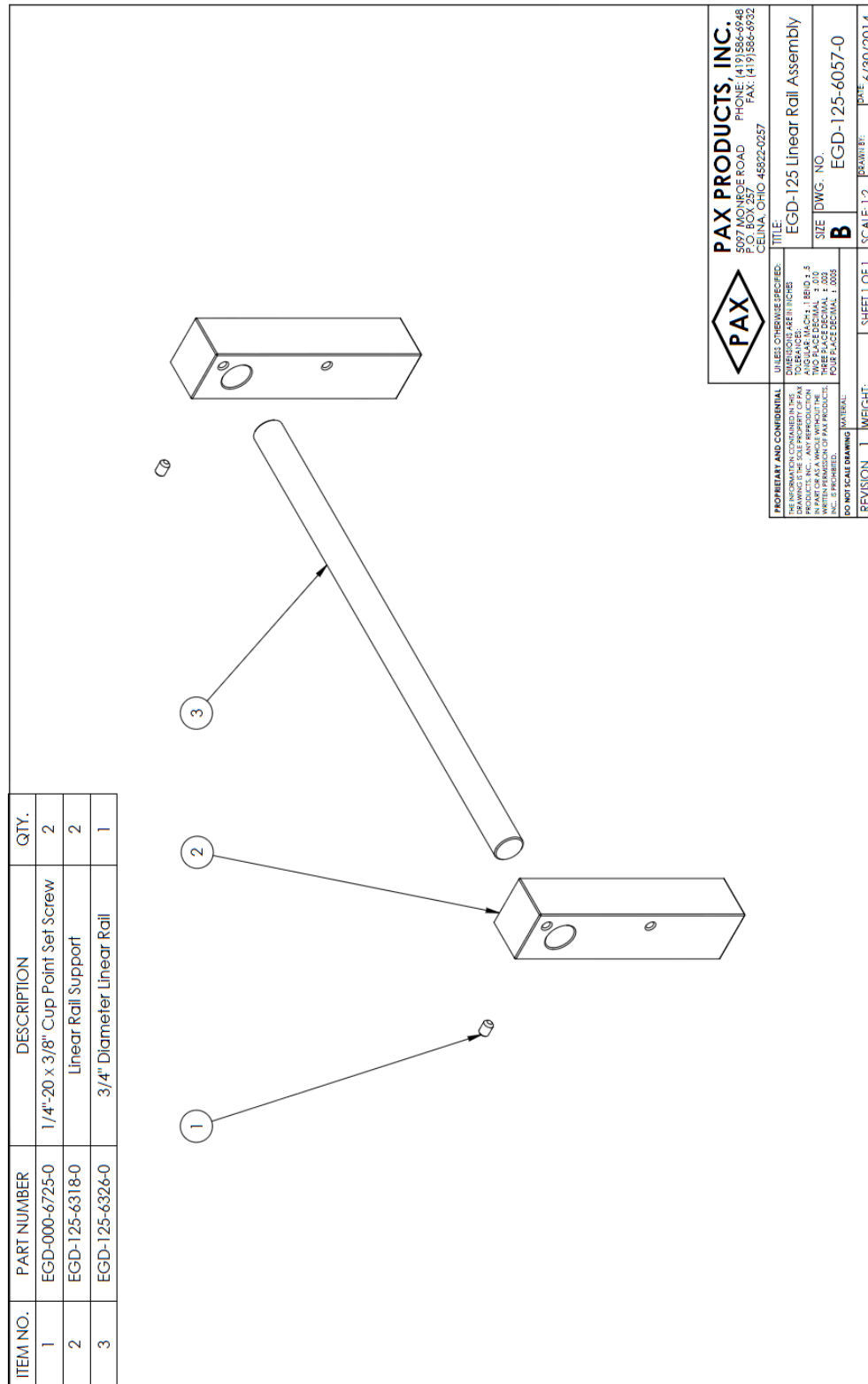


Figure 14: EGD-125 LINEAR RAIL ASSEMBLY

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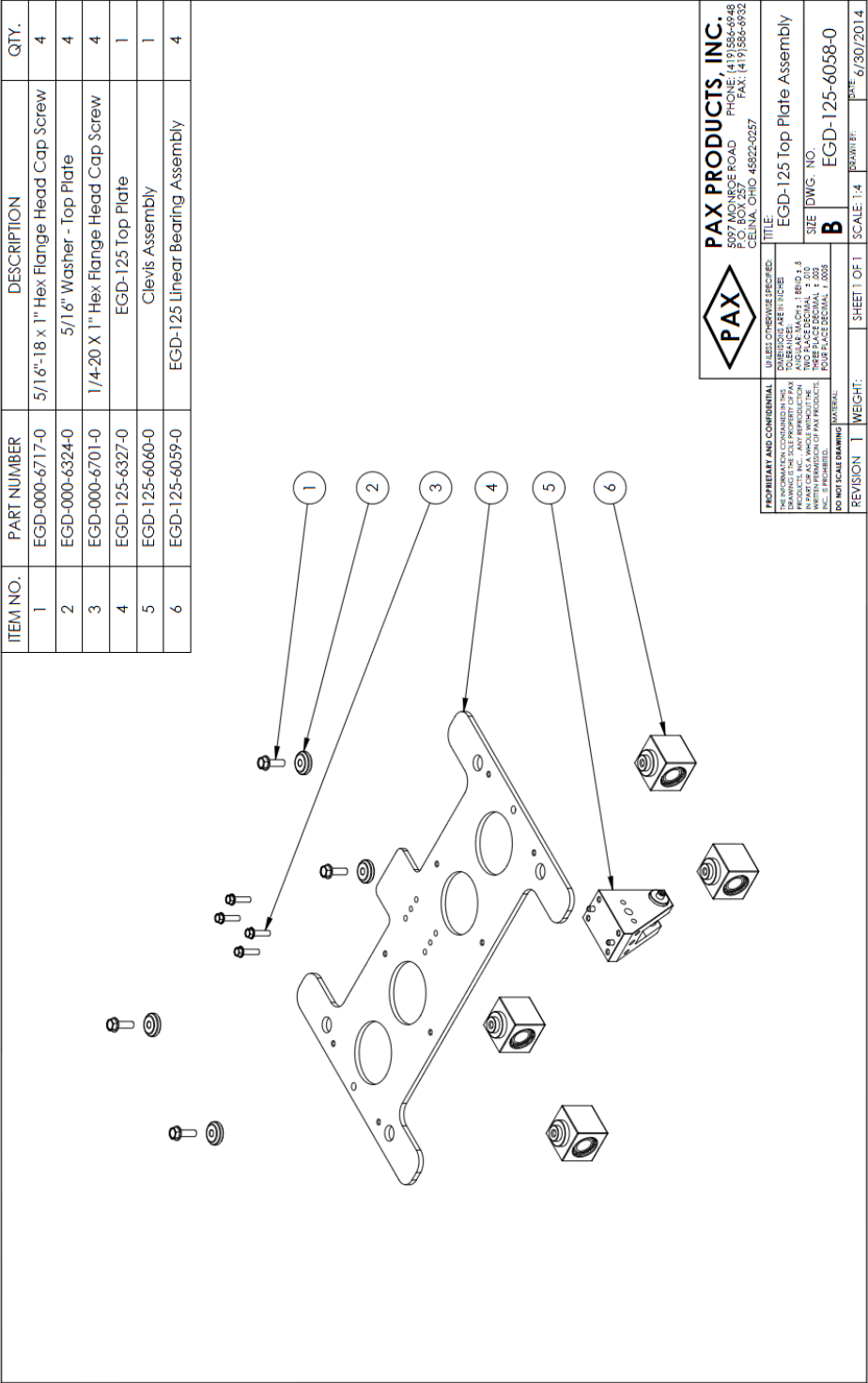


Figure 15: EGD-125 TOP PLATE ASSEMBLY

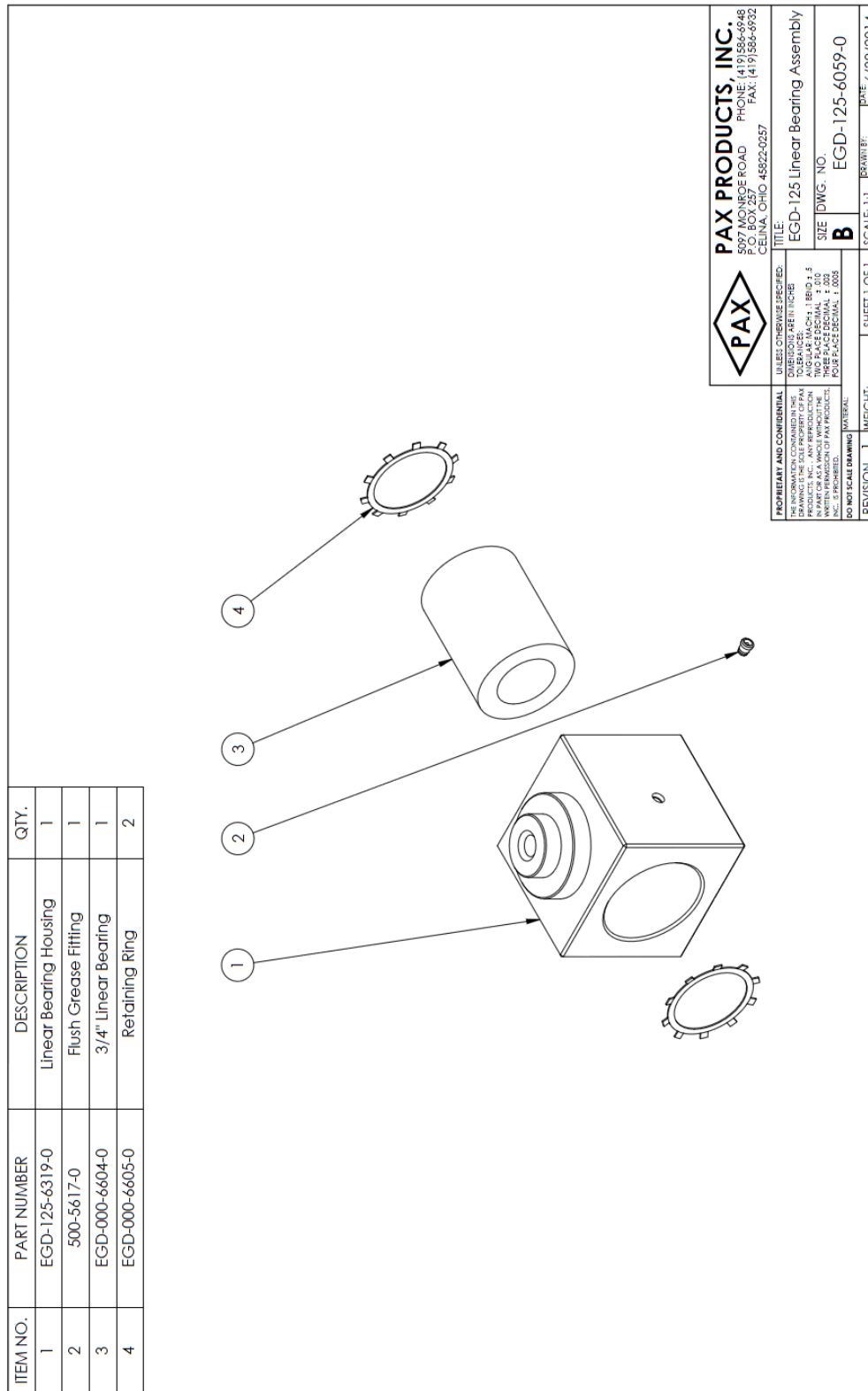


Figure 16: EGD-125 LINEAR BEARING ASSEMBLY

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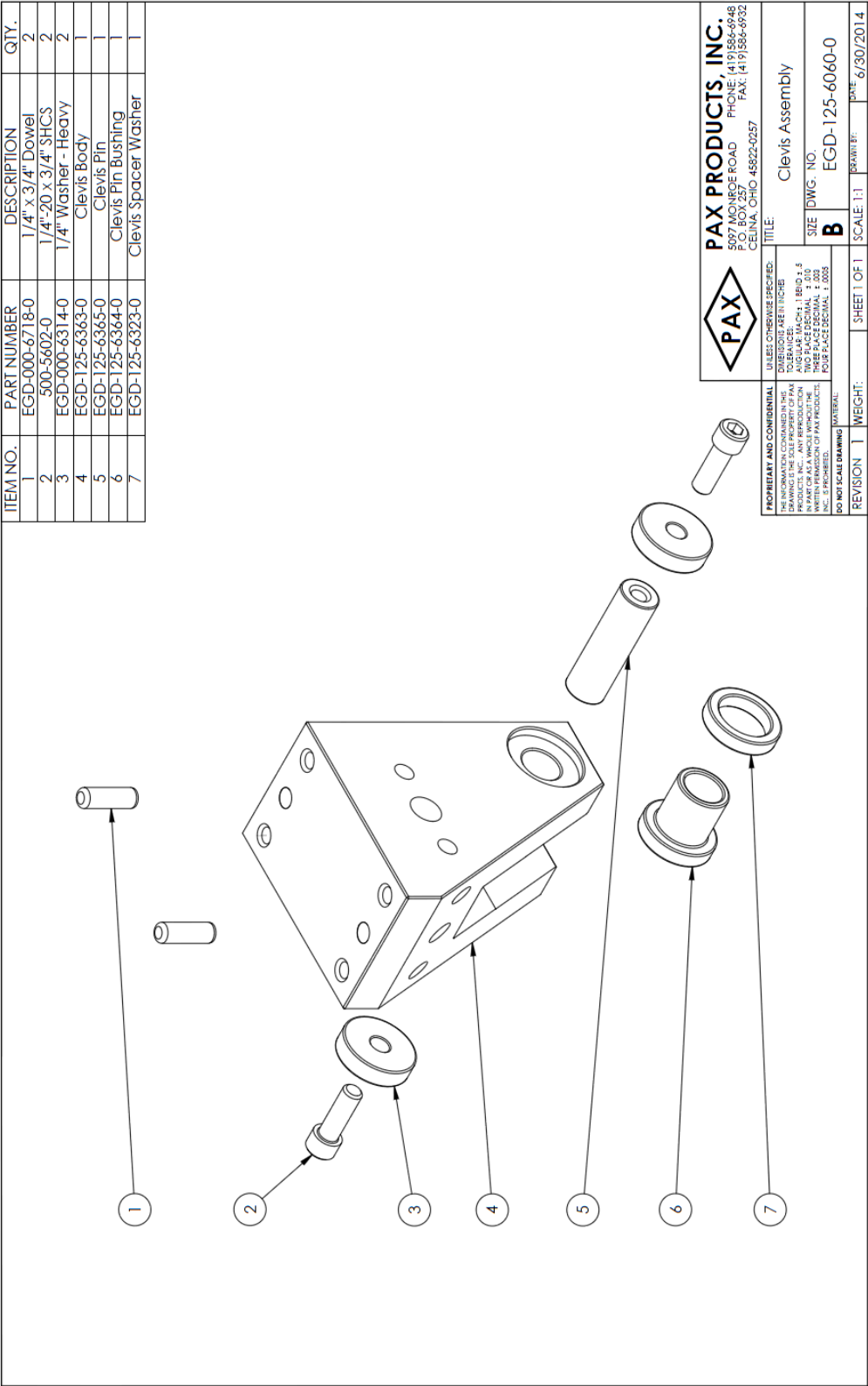


Figure 17: EGD-125 CLEVIS ASSEMBLY

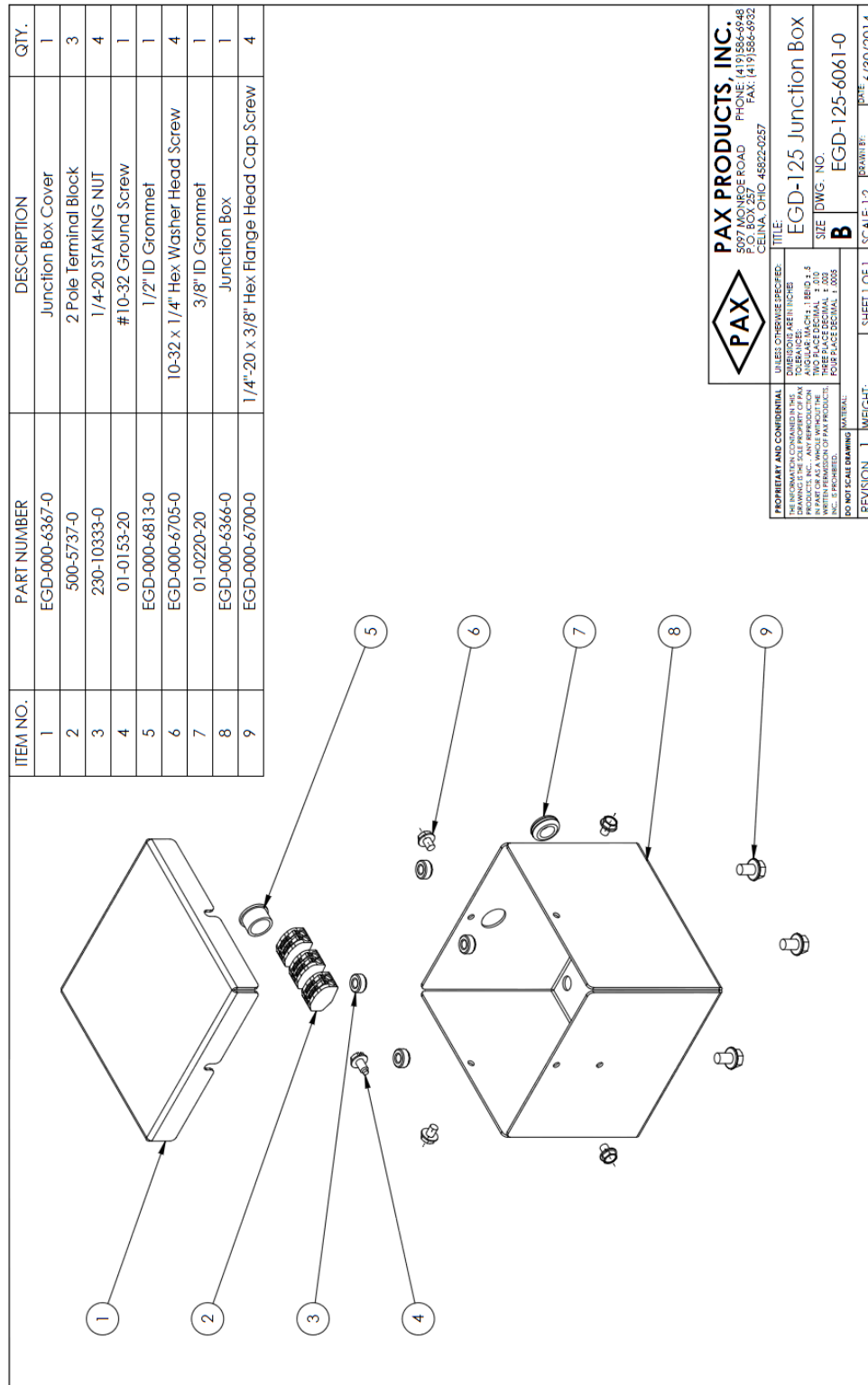
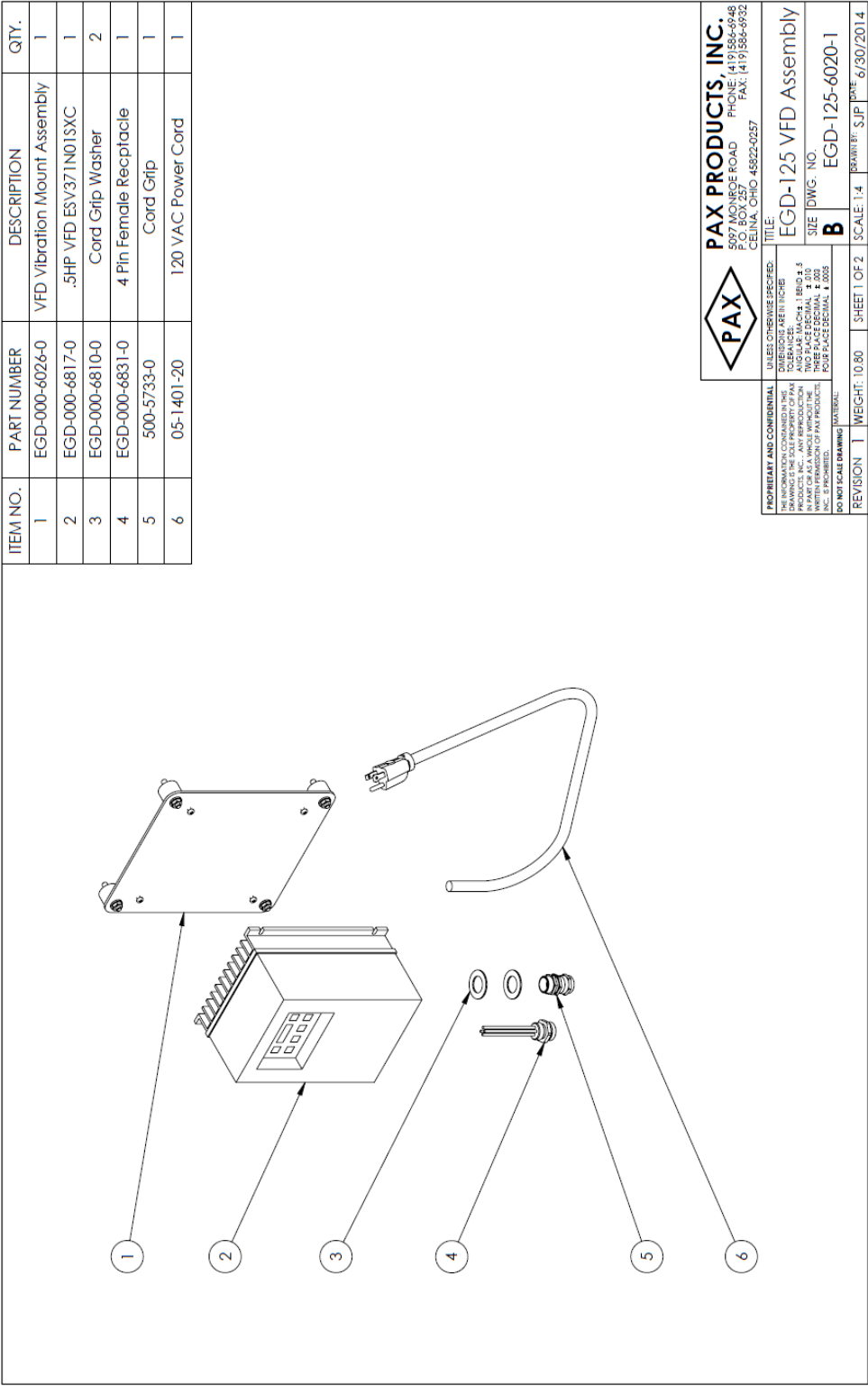


Figure 18: EGD-125 JUNCTION BOX

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VARIABLE FREQUENCY DRIVE COMPONENTS



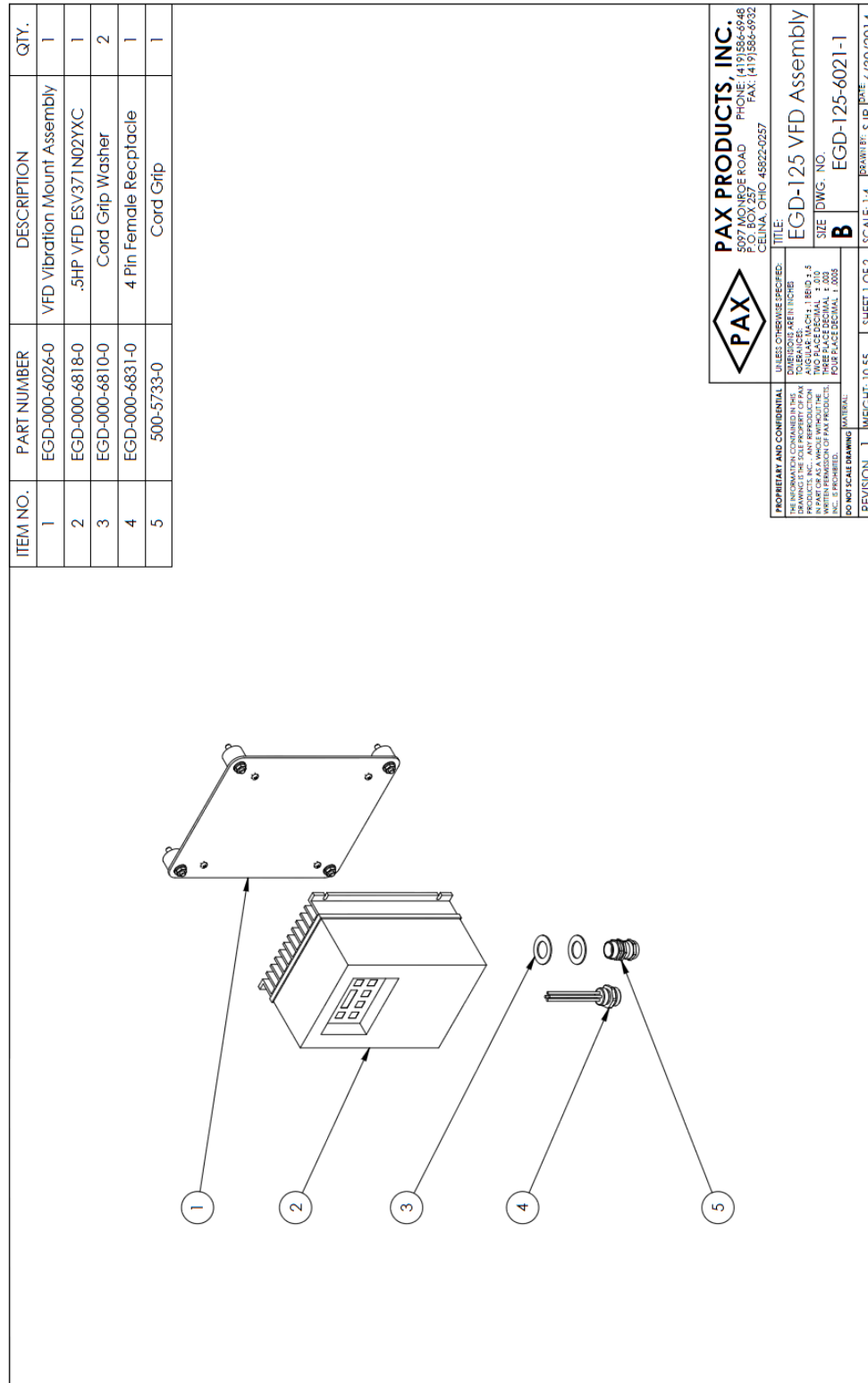


Figure 20: EGD-125-6021-1 VFD ASSEMBLY 240 VAC 3 PHASE INPUT



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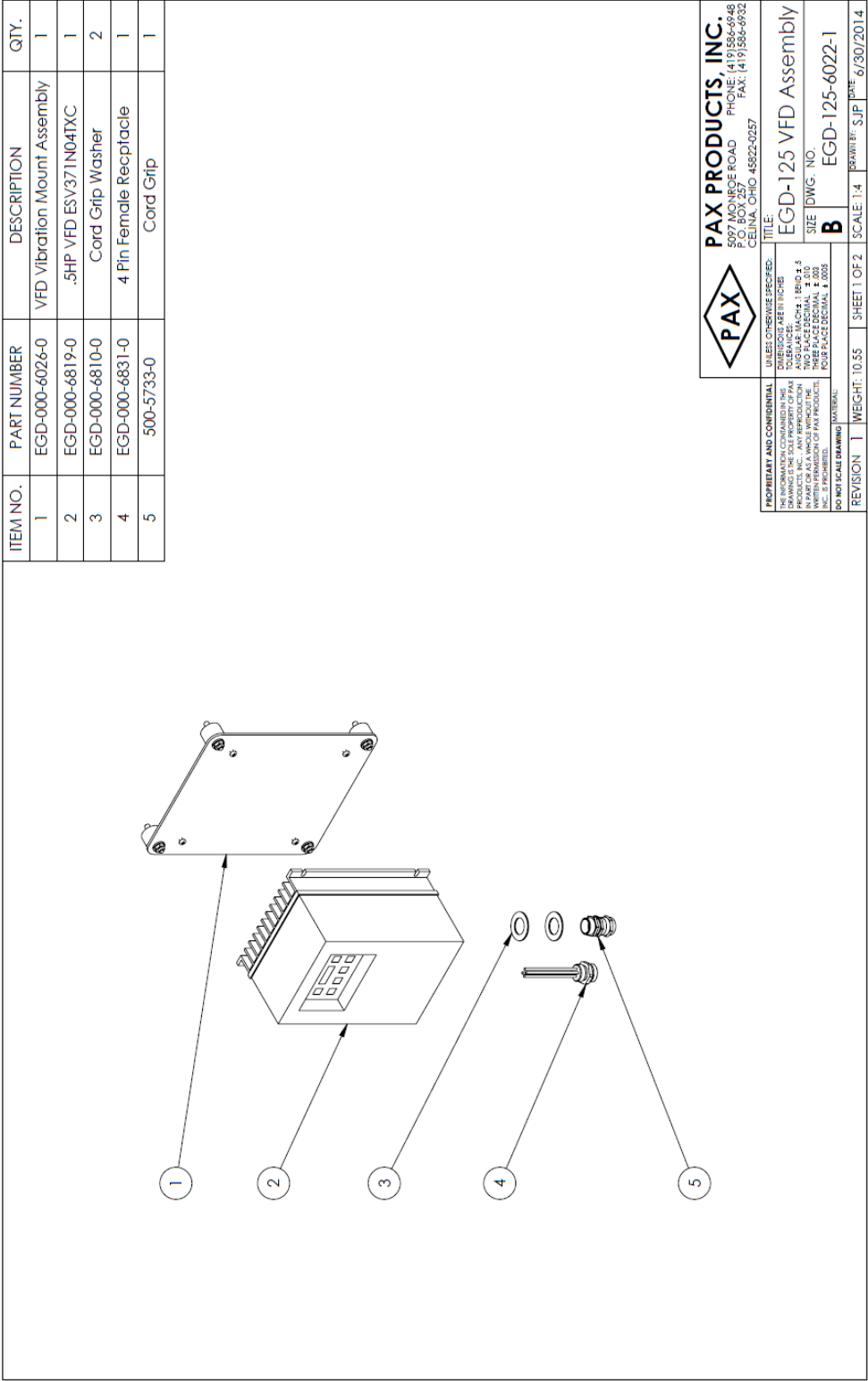


Figure 21: EGD-125-6022-1 VFD ASSEMBLY 480 VAC 3 PHASE INPUT

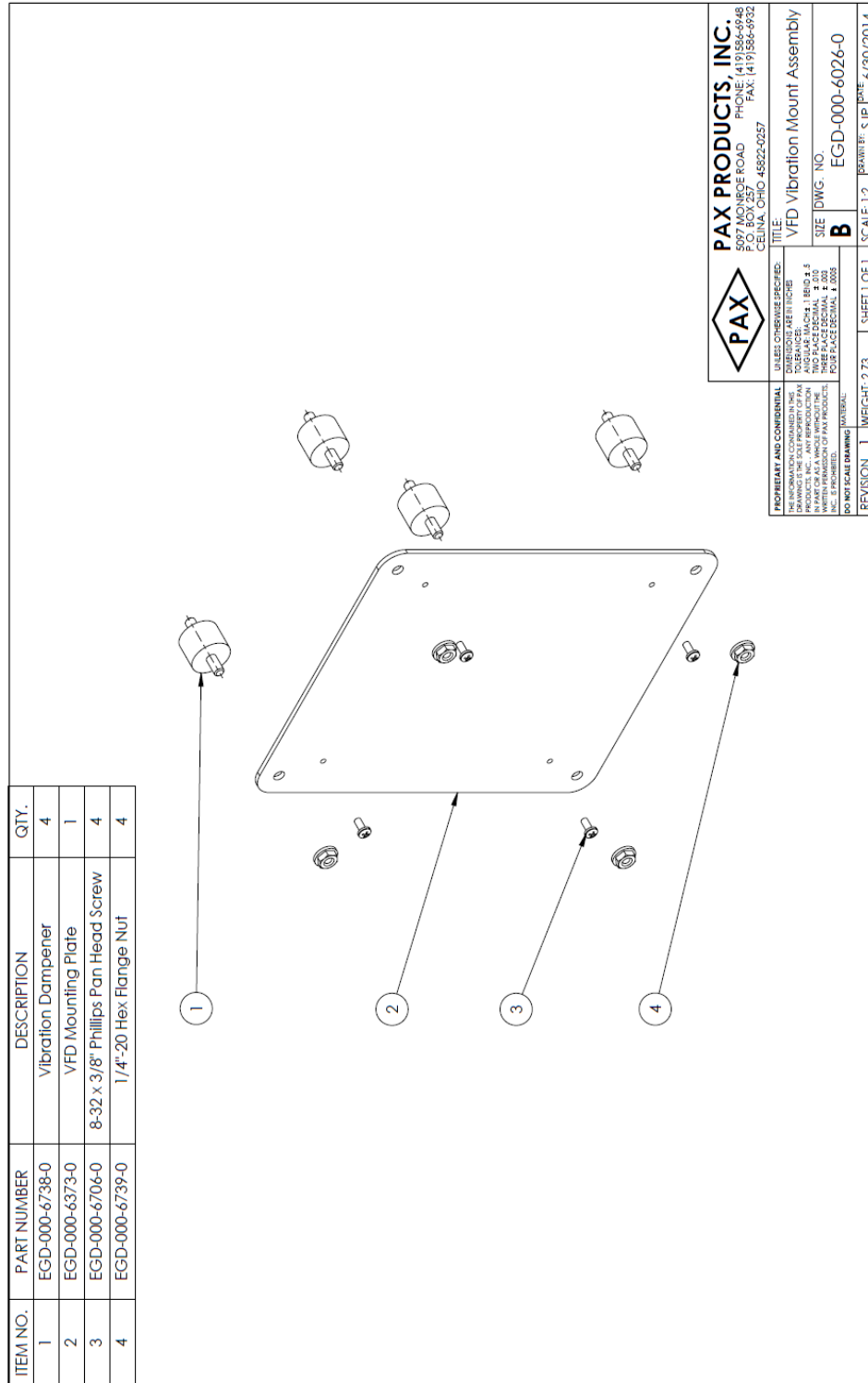


Figure 22: EGD-000-6026-0 VFD VIBRATION MOUNT ASSEMBLY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EGD-000-63XX-0	Shaker Arm - Yr Length	1
2	230-10333-0	1/4-20 STAKING NUT	8
3	EGD-000-6341-0	Saddle Washer - Single	*
4	EGD-000-6340-0	Saddle Washer - Double	*
5	EGD-000-6701-0	1/4-20 X 1" Hex Flange Head Cap Screw	*
6	EGD-125-6328-0	Angle Bracket	1
7	EGD-000-6700-0	1/4"-20 x 3/8" Hex Flange Head Cap Screw	16
8	EGD-125-6351-0	Angle Bracket - Feed Side	1
9	EGD-000-6339-0	Tube Saddle - Single	*
10	EGD-000-6338-0	Tube Saddle - Double	*
11	EGD-000-6337-0	Tube Nut - Single	*
12	EGD-000-6335-0	9" Tube	*
13	EGD-000-6336-0	Tube Nut - Double	*
14	EGD-000-6334-0	12" Tube	*

\* - Quantity Based on Size of Arm Assembly  
Please Reference EGD-125 Drive Arm Assembly Parts Chart

		<b>PAX PRODUCTS, INC.</b> 1807 AVENUE ROAD P.O. BOX 185 CELINA, OHIO 45822-0257 PHONE: (419) 586-6648 FAX: (419) 586-6692	
		TITLE: <b>Drive Arm Assembly</b> SIZE: <b>DWG. NO.</b> <b>B</b>	
PROPRIETARY AND CONFIDENTIAL THE INFORMATION CONTAINED IN THIS DRAWING IS THE SOLE PROPERTY OF PAX PRODUCTS, INC. IT IS TO BE USED FOR THE MANUFACTURE OF THE PRODUCT SPECIFICALLY IDENTIFIED HEREIN. IN PART OR AS A WHOLE WITHOUT THE WRITTEN PERMISSION OF PAX PRODUCTS, INC. IS PROHIBITED.		UNLESS OTHERWISE SPECIFIED: DIMENSIONS ARE IN INCHES ANGLES: TYPICAL TOLERANCES: FRACTIONS: 1/16" TO 3/8" - .015 TWO PLACE DECIMAL: .005 THREE PLACE DECIMAL: .0005 FOUR PLACE DECIMAL: .0005	
DO NOT SCALE DRAWING		SHEET NO. 1 OF 1	SCALE: 1:1 DATE: 7/10/01

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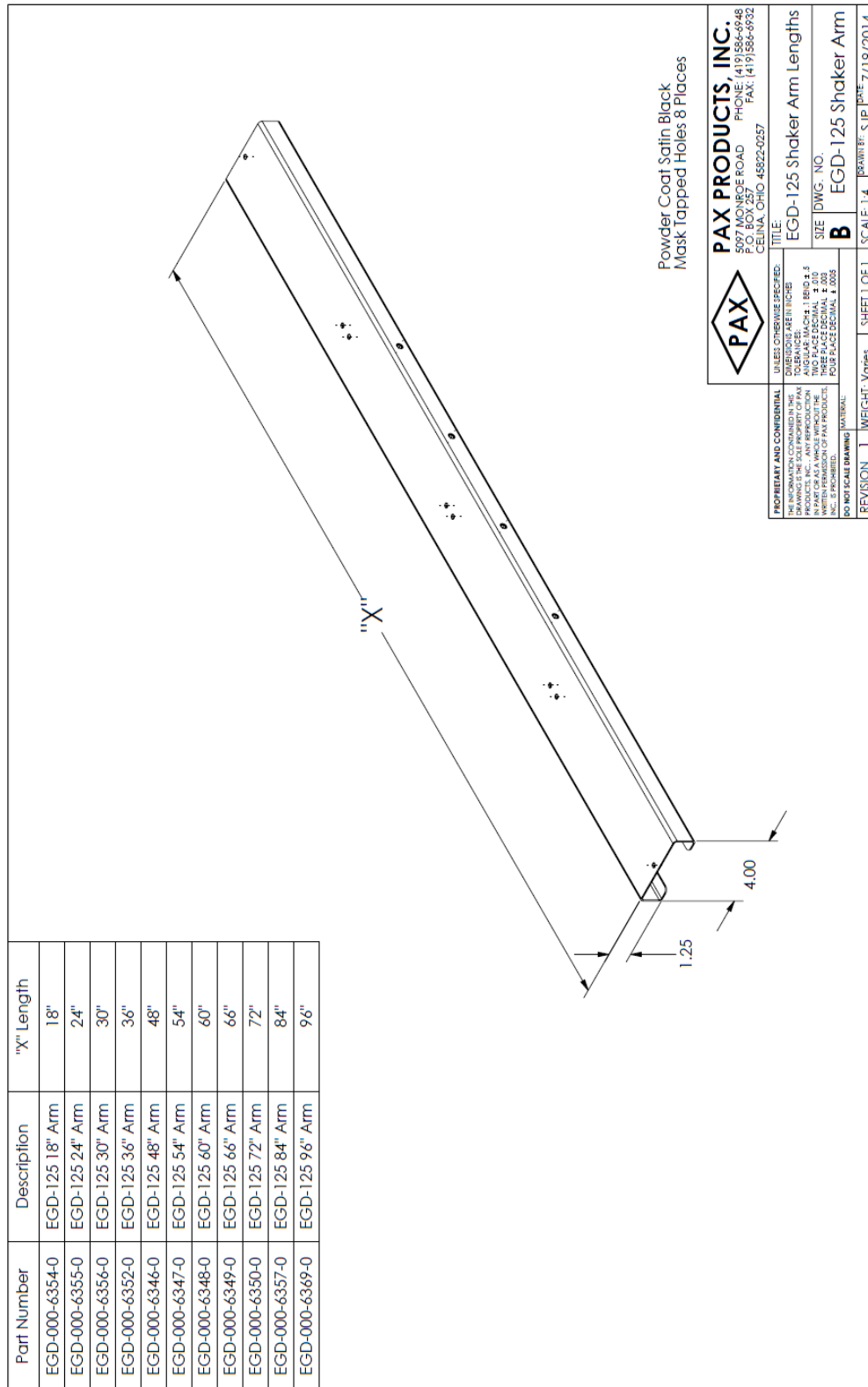


Figure 24: EGD-125 SHAKER ARM

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## EGD-125 Drive Arm Assembly Parts

The Item Numbers listed on this table correspond with the Item Numbers listed on Pax Drawing Number EGD-62XX

ITEM NO.	PART NUMBER	PART DESCRIPTION	QUANTITY OF EACH PART REQUIRED FOR EACH DRIVE ARM ASSEMBLY LENGTH											
			18" Long Arm Qty. Req.	24" Long Arm Qty. Req.	30" Long Arm Qty. Req.	36" Long Arm Qty. Req.	48" Long Arm Qty. Req.	54" Long Arm Qty. Req.	60" Long Arm Qty. Req.	66" Long Arm Qty. Req.	72" Long Arm Qty. Req.	84" Long Arm Qty. Req.	96" Long Arm Qty. Req.	
1	EGD-000-6354-0	18" Drive Arm	1	0	0	0	0	0	0	0	0	0	0	
1	EGD-000-6355-0	24" Drive Arm	0	1	0	0	0	0	0	0	0	0	0	
1	EGD-000-6356-0	30" Drive Arm	0	0	1	0	0	0	0	0	0	0	0	
1	EGD-000-6352-0	36" Drive Arm	0	0	0	1	0	0	0	0	0	0	0	
1	EGD-000-6346-0	48" Drive Arm	0	0	0	0	1	0	0	0	0	0	0	
1	EGD-000-6347-0	54" Drive Arm	0	0	0	0	0	1	0	0	0	0	0	
1	EGD-000-6348-0	60" Drive Arm	0	0	0	0	0	0	1	0	0	0	0	
1	EGD-000-6349-0	66" Drive Arm	0	0	0	0	0	0	0	1	0	0	0	
1	EGD-000-6350-0	72" Drive Arm	0	0	0	0	0	0	0	0	1	0	0	
1	EGD-000-6357-0	84" Drive Arm	0	0	0	0	0	0	0	0	0	1	0	
1	EGD-000-6369-0	96" Drive Arm	0	0	0	0	0	0	0	0	0	0	1	
2	230-10333-0	1/4-20 STAINING NUT	8	8	8	8	8	8	8	8	8	8	8	
3	EGD-125-6351-0	Angle Bracket - Feed Side	1	1	1	1	1	1	1	1	1	1	1	
4	EGD-000-6700-0	1/4"-20 x 3/8" Hex Flange Head Cap Screw	16	16	16	16	16	16	16	16	16	16	16	
5	EGD-000-6335-0	9" Tube	2	0	0	0	0	0	0	0	0	0	0	
6	EGD-000-6334-0	12" Tube	0	2	1	3	4	3	5	4	6	7	8	
7	EGD-000-6337-0	Tube Nut - Single	2	2	2	2	2	2	2	2	2	2	2	
8	EGD-000-6339-0	Tube Saddle - Single	2	2	2	2	2	2	2	2	2	2	2	
9	EGD-000-6336-0	Tube Nut - Double	1	1	2	2	3	4	4	5	5	6	7	
10	EGD-000-6338-0	Tube Saddle - Double	1	1	2	2	3	4	4	5	5	6	7	
11	EGD-000-6341-0	Saddle Washer - Single	2	2	2	2	2	2	2	2	2	2	2	
12	EGD-000-6340-0	Saddle Washer - Double	1	1	2	2	3	4	4	5	5	6	7	
13	EGD-000-6701-0	1/4-20 X 1" Hex Flange Head Cap Screw	4	4	6	6	8	10	10	12	12	14	16	
14	EGD-125-6328-0	Angle Bracket	1	1	1	1	1	1	1	1	1	1	1	
Part Number for the Complete Drive Arm Assembly			EGD-000-6206-0	EGD-000-6207-0	EGD-000-6208-0	EGD-000-6205-0	EGD-000-6206-0	EGD-000-6201-0	EGD-000-6202-0	EGD-000-6203-0	EGD-000-6204-0	EGD-000-6209-0	EGD-000-6211-0	

Figure 25: EGD-000-6216-0 EGD-125 24" SHAKER ARM ASSEMBLY

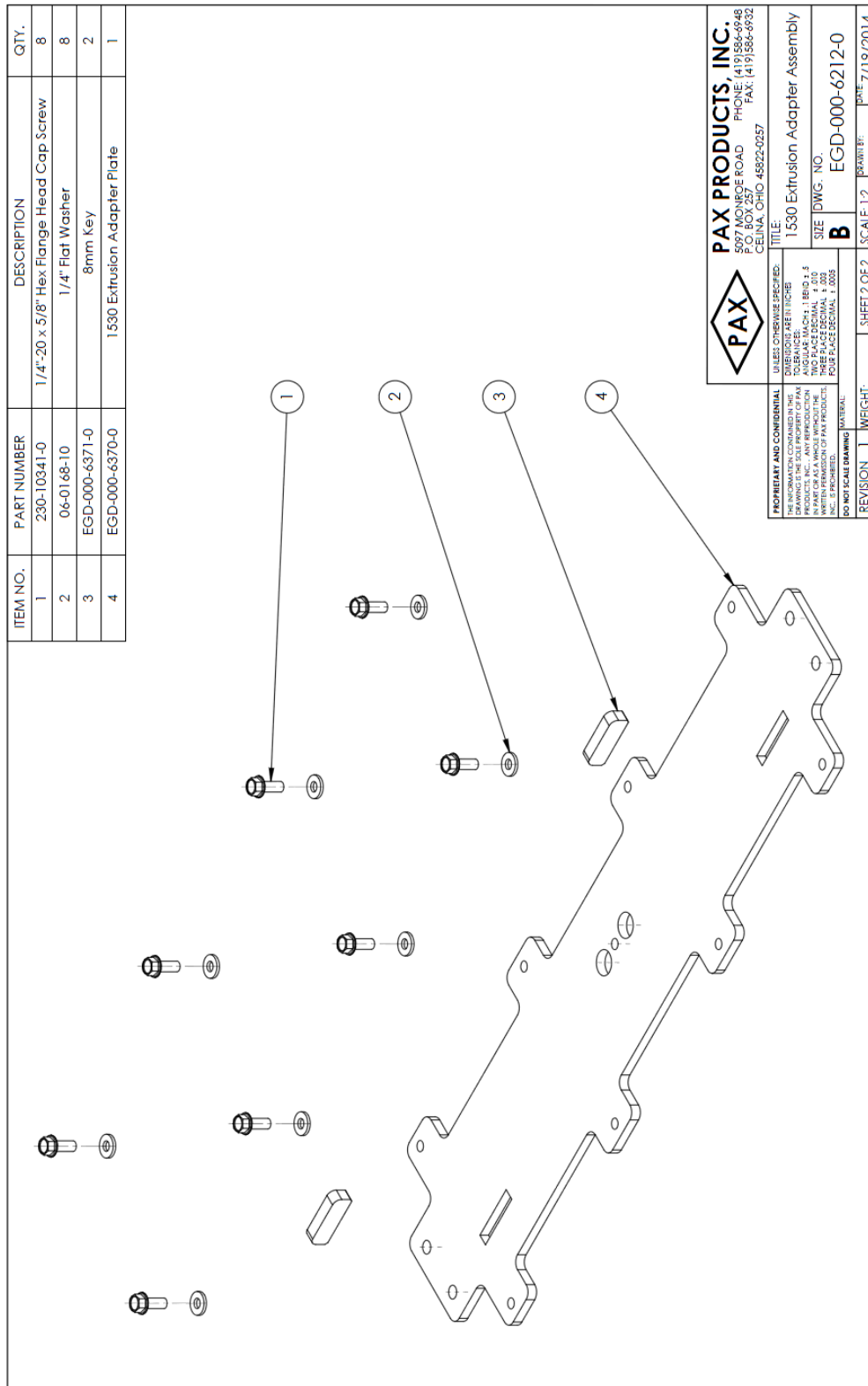


Figure 26: EGD-000-6212-0 1530 EXTRUSION ADAPTER ASSEMBLY

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MOUNTING BRACKET COMPONENTS

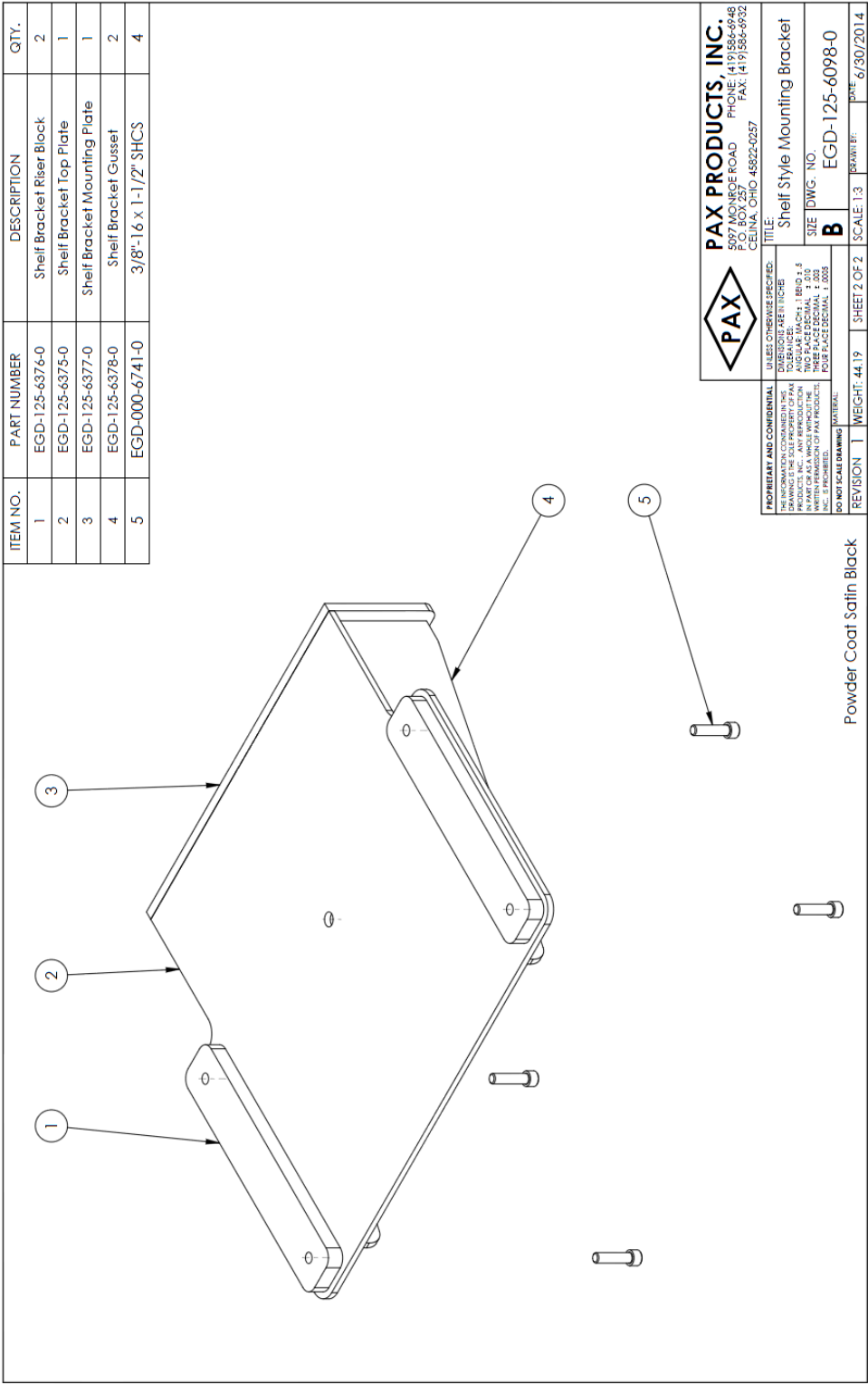


Figure 27: EGD-125-6098-0 SHELF STYLE MOUNTING BRACKET

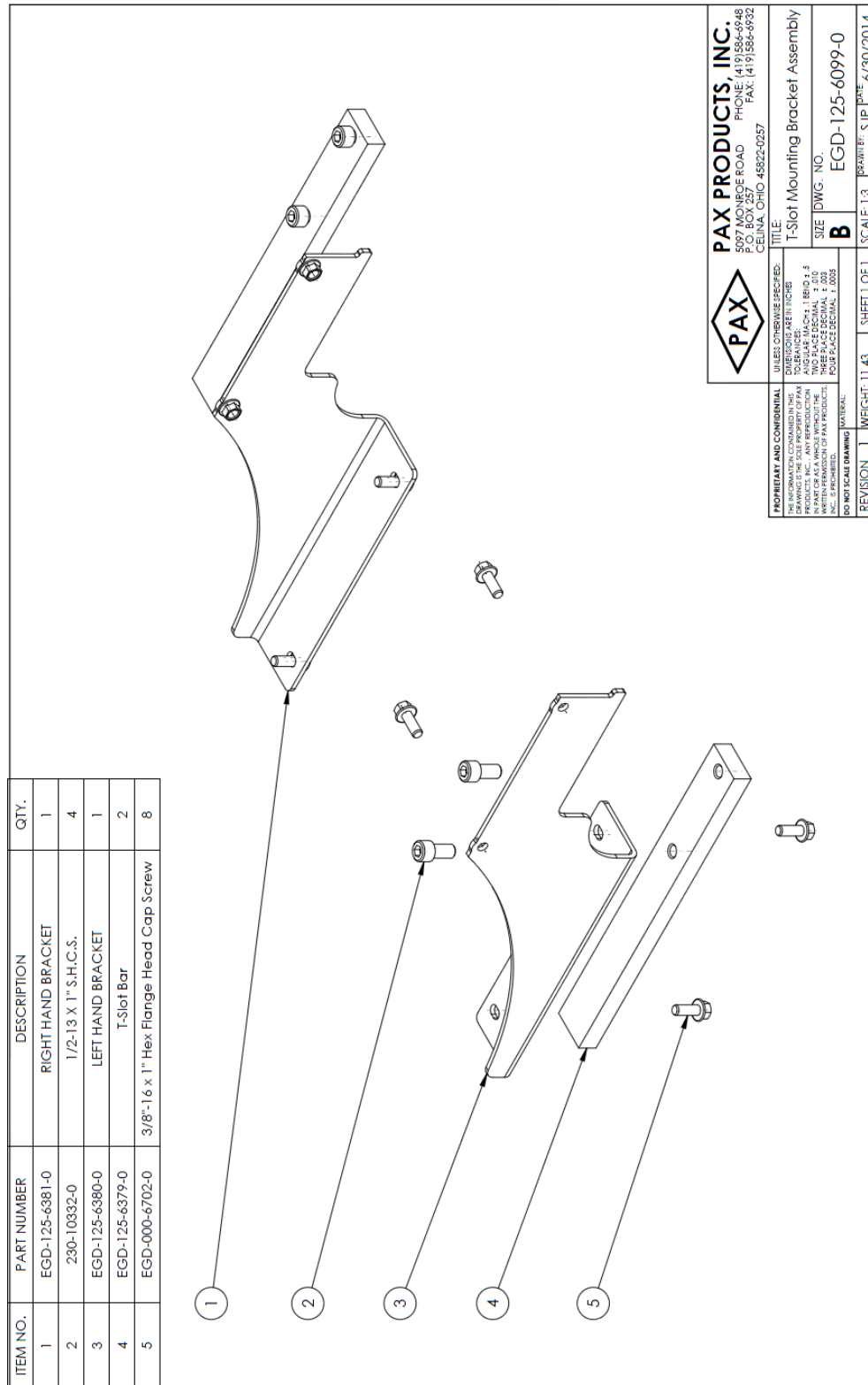


Figure 28: EGD-125-6099-0 T-SLOT MOUNTING BRACKET ASSEMBLY



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## CUSTOM TRAY CONFIGURATIONS AND OPTIONS

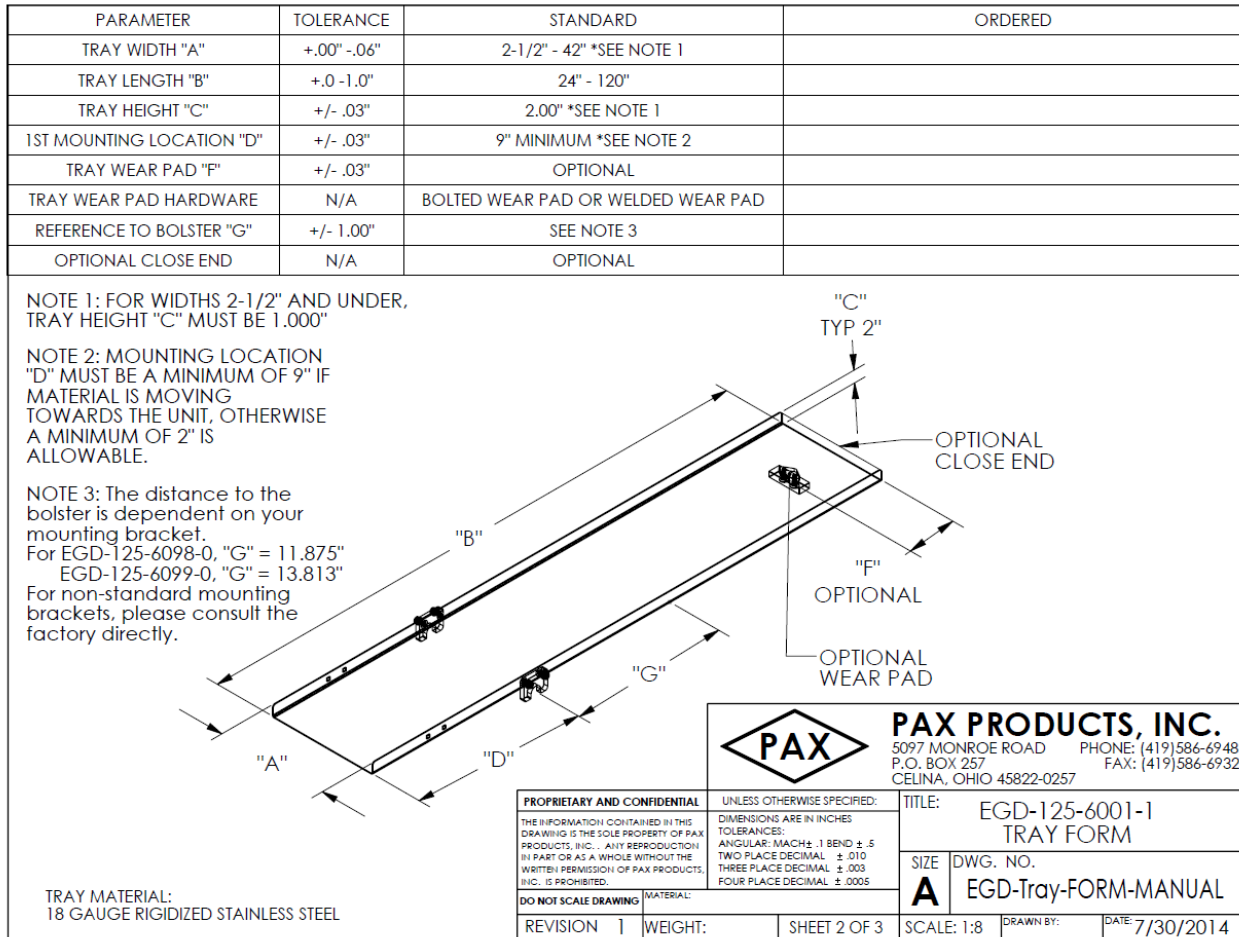
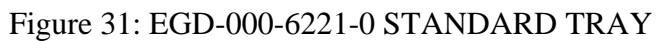
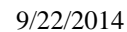


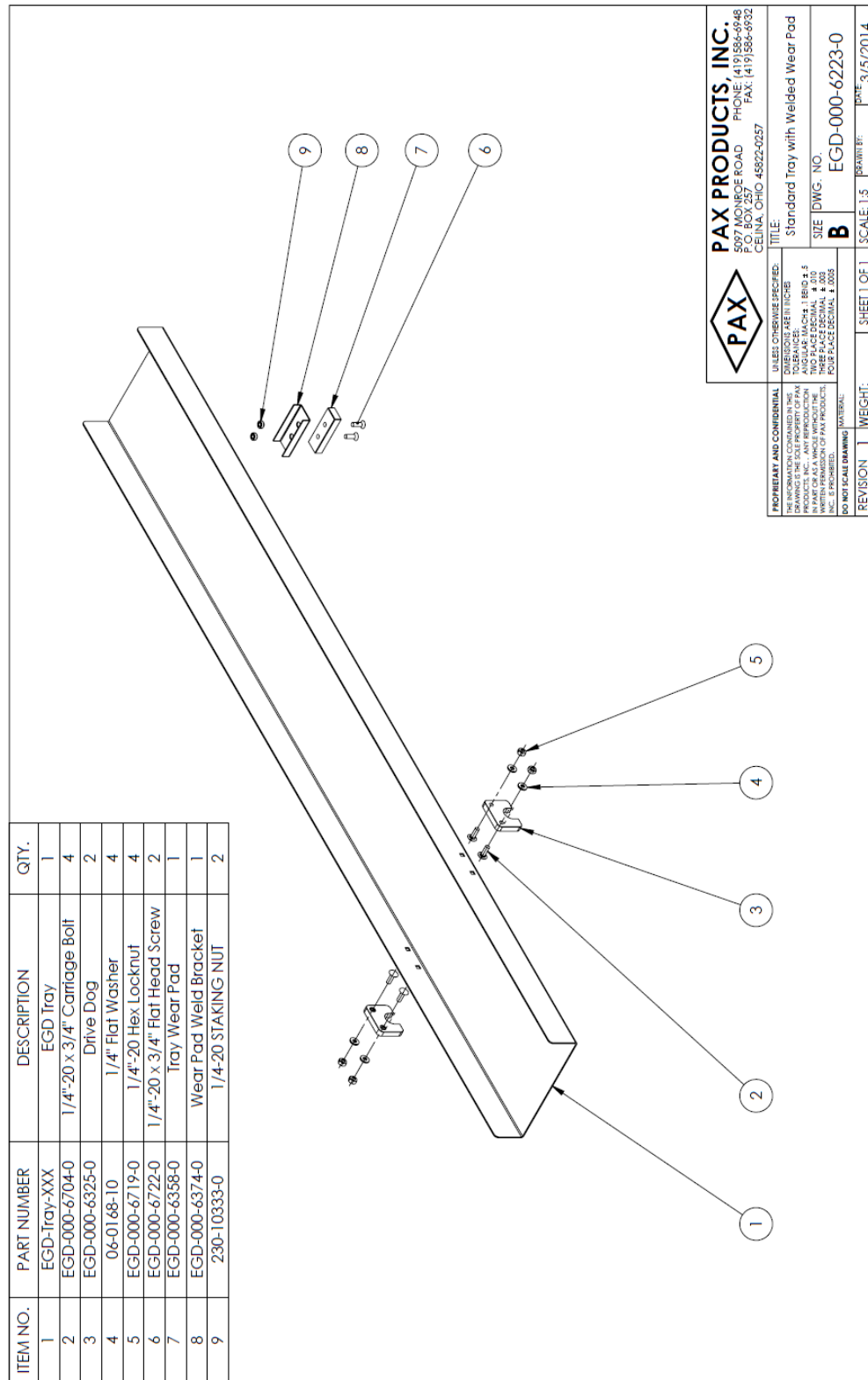
Figure 29: PAX TRAY CONFIGURATION FOR ORDERING



Figure 30: RIGIDIZED METAL TRAY WITH PAX QUICK CONNECT BRACKETS







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## TRAY ACCESSORIES

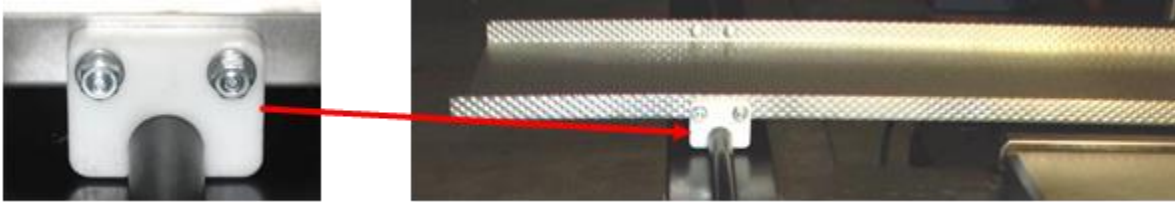


Figure 34: PAX TRAY MOUNTING BRACKETS ON RIDGEDIZED METAL TRAY

ITEM NO.	PART NUMBER	DESCRIPTION	QTY.
1	EGD-000-6325-0	Drive Dog	2
2	EGD-000-6704-0	1/4"-20 x 3/4" Carriage Bolt	4
3	06-0168-10	1/4" Flat Washer	4
4	EGD-000-6719-0	1/4"-20 Hex Locknut	4

Torque Nuts to 100 in/lb

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DO NOT SCALE DRAWING

UNLESS OTHERWISE SPECIFIED:

DIMENSIONS ARE IN INCHES

TOLERANCES:

ANGULAR: MACH± .1 BEND ± .5

TWO PLACE DECIMAL ± .010

THREE PLACE DECIMAL ± .003

FOUR PLACE DECIMAL ± .0005

REVISION 1

WEIGHT: 0.15

SHEET 1 OF 1

SCALE: 1:1

DRAWN BY:

DATE 3/5/2014

**PAX PRODUCTS, INC.**

5097 MONROE ROAD PHONE: (419) 586-6948

P.O. BOX 257 FAX: (419) 586-6932

CELINA, OHIO 45822-0257

TITLE: Tray Mounting Brackets

SIZE A DWG. NO. EGD-000-6220-0

Figure 35: EGD-000-6220-0 TRAY MOUNTING BRACKETS

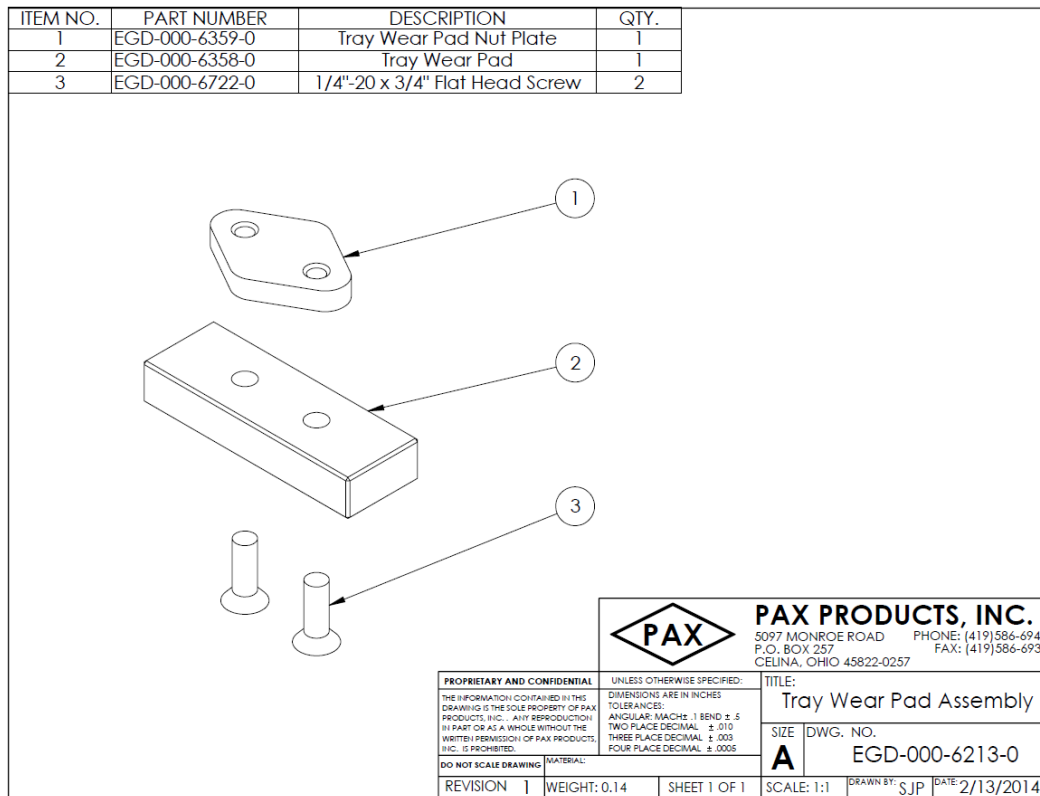


Figure 36: EGD-000-6213 TRAY WEAR PAD ASSEMBLY

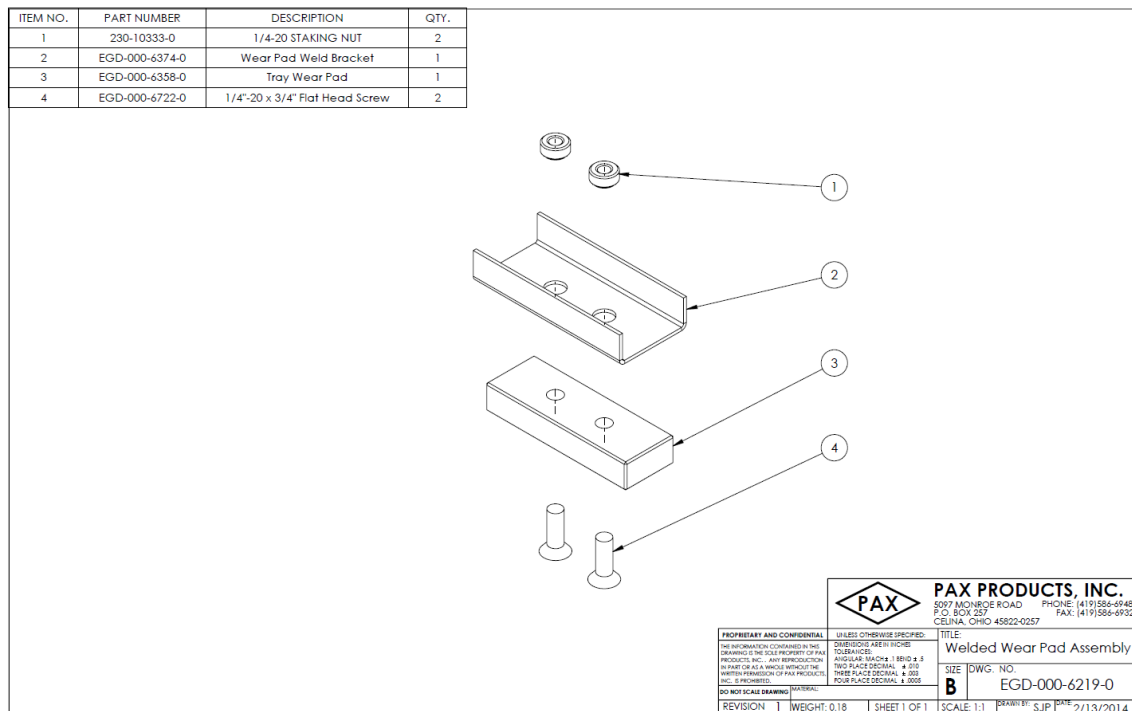


Figure 37: EGD-000-6219-0 WELDED WEAR PAD ASSEMBLY