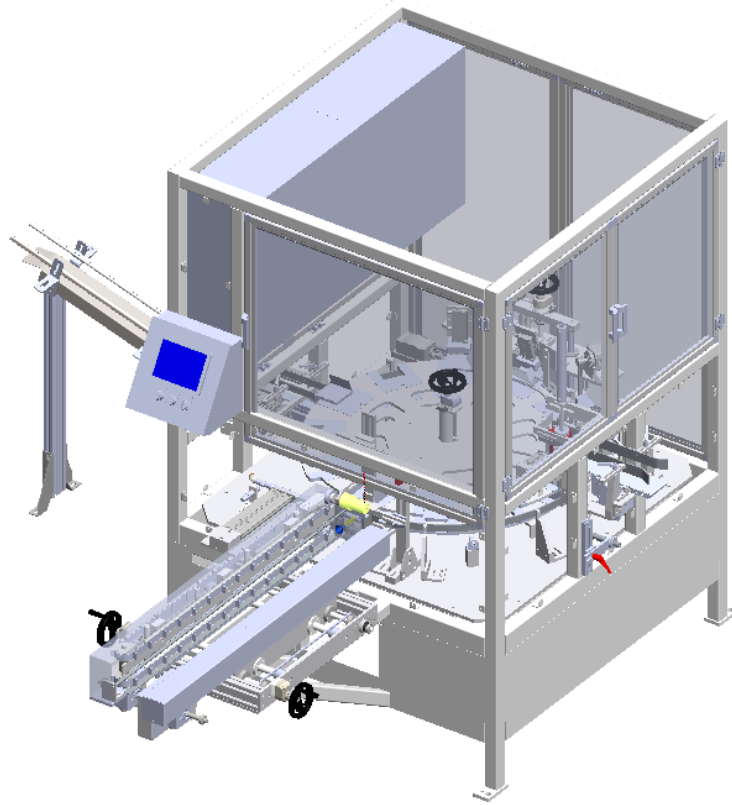




endflex[™]
PACKAGING MACHINERY



 **BOXXER KARTNR**

CC-003

CASE ERECTOR AUTO LOCK

OPERATION AND MAINTENANCE MANUAL

S/N: 19548

4760 NW 128th Street, Miami, Florida 33054

☎ 305-622-4070 📠 305-688-7772

www.endflex.com

TABLE OF CONTENTS

SAFETY	3
INSTALLATION	5
MACHINE ORIENTATION	6
SEQUENCE OF OPERATION	7
STARTING THE MACHINE	8
OPERATOR INTERFACE	10
OVERVIEW	10
1. SPLASH SCREEN	10
2. RUN SCREEN	11
3. BATCH JOBS SCREEN	13
4. CHANGE OVER SCREEN	14
5. TOOLS SCREEN	14
6. INPUTS SCREEN	15
7. OUTPUTS SCREEN	15
8. MAINTENANCE SCREEN	16
9. SETUP SCREEN	18
10. PARAMETER SCREEN	18
11. PARAMETER VALUES	19
12. RECIPE SCREEN	23
13. RECIPE VALUES	25
14. HELP SCREEN	28
CHANGE-OVER	29
CHANGE OVER ITEMS.....	30
MACHINE SPECIFICATIONS	44
MAINTENANCE.....	45
TROUBLESHOOTING.....	47
MACHINE MAINTENANCE CHART.....	48
LIGHT STACK COLOR CODES.....	49
SPARE PARTS.....	50
SERVICE	51
INFEED CONVEYOR.....	52
SUGGESTED SPARE PARTS	56
ASSEMBLY DRAWINGS	57

SAFETY

It is the Employers responsibility to provide adequate supervision to determine that safe work methods are used. It is also the responsibility of the employer to establish and follow a periodic and regular inspection of this machine to ensure that all parts, auxiliary equipment, and safe guards are in a safe operating condition and adjustment.

SAFETY SYMBOLS

The following symbols are used to warn against dangers of possible sources of danger. Become familiar with them! Failure to heed a warning could lead to personal injury and/of damage to the machinery or other equipment.



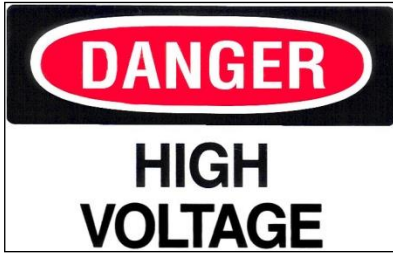
CAUTION - KEEP HANDS CLEAR: Indicates the presence of moving machinery and you should keep hands clear of these parts when machine is running.



DANGER - DO NOT OPEN WHILE MACHINE IS IN OPERATION: Indicates that any access door should remain close while machine is in operation.



DANGER - DO NOT OPERATE WITHOUT GUARDS: Indicates that all guards supplied with this machine should remain attached to machine and closed. All electric interlocks to door should remain in place and functioning. Any attempt to disable these switches could cause harm to operators and personnel involved with the operation of the equipment.



DANGER - HIGH VOLTAGE: Indicates the presence of high voltage and all caution should be made when working in these areas. Turn off all electrical disconnects when working on the machine.



DANGER - OPEN MACHINERY: Located around the machine to warn operators and personnel that you are working in an area of the machine with running components. When this sign is viewed the machine should be turned off and power disconnected.



DANGER - STARTS AUTOMATICALLY: Located around the machine in areas where the machine maybe in Auto Idle. If the machine is on and running it will automatically start running when the discharge is clear of product. It is advised that you remain clear of these areas when the machine is in operation.

REMEMBER:

When working on machine turn the power off, for your safety and those around you.

Before starting the machine be sure to yell in a loud manner, "power on", and be sure personnel are clear of the machine before starting.

INSTALLATION

UNPACKING

- 1) Remove shipping container.
- 2) Remove any ties, blocks of pads that may be included.
- 3) Move machine to designated area and reassemble parts that have been removed for shipping.

AIR CONNECTION

- 4) Connect a flexible air line of suitable size (1/2" ID minimum) with a manual shut off valve to the main air inlet
- 5) Set air regulator to 80psi.

POWER CONNECTION

- 6) Hook up the power according to the electrical schematic. A copy of this diagram will be in the electrical box and this manual.
- 7) Be sure you have the correct size electrical service to accommodate this machine.

NOTE:

When the above procedures have been completed, you will be ready for our serviceman to finalize the installation of your machine.

MACHINE ORIENTATION

This section of the manual is intended to help those who may not be familiar with packaging machine terminology. All the parts mentioned can be found on the assembly drawing located in the back of this manual.

BLANKS HOPPER

This is the magazine where the carton blanks are loaded.

PRODUCT INFEEED

This is the conveyor that receives the product from the production line and conveys it into the machine to be dropped inside the carton.

DISCHARGE

This is the where the loaded and closed cartons are discharge from the machine.

SEQUENCE OF OPERATION

1. One carton is pulled out of the hopper and erected with the top flaps open.
2. The erected carton is indexed to the loading area.
3. The product is conveyed to the loading area.
4. The product stops and a gate opens to drop the product inside the carton.
5. The carton is indexed and the minors flaps are closed.
6. The loaded carton goes to the closing station where the lid is tucked to close the carton.
7. The closed carton is ejected from the machine in the next station.

STARTING THE MACHINE

STEP FUNCTION: For use when testing box after size change over. The STEP setting allows you to pull and erect a blank through machine one step at a time.

1. Turn the **Power ON** Switch to the **ON** position.
2. Be sure the **E-STOP** is pulled out.
3. If the screen is not on, by touching the screen will activate back light.
4. Press the **RESET** button on front panel to activate power to machine.
5. Be sure blanks are loaded on hopper.
6. Set the **MANUAL MODE/AUTO MODE** button to **MANUAL MODE** on touch screen.
7. Set the **RUN MODE/STEP MODE** button to **STEP MODE** on touch screen.
8. Press the **START** button.
9. By continually pushing the **NEXT STEP** button, on the touch screen, the machine will cycle in a step by step process. This step function is used for first tray run through machine after change over for checking setting on machine before running.



RUN FUNCTION: For running the machine without auto idler function.

1. Turn the **Power ON** Switch to the **ON** position.
2. Be sure the **E-STOP** is pulled out.
3. If the screen is not on, by touching the screen will activate back light.
4. Press the **RESET** button on front panel to activate power to machine.
5. Be sure blanks are loaded on hopper.
6. Set the **MANUAL MODE/AUTO MODE** button to **MANUAL MODE** on touch screen.
7. Set the **RUN MODE/STEP MODE** button to **RUN MODE** on touch screen.
8. Press the **START** button.

MACHINES WITH AUTO IDLER OPTION: For idling the machine when trays back up on discharge or on customers conveyor.

1. Turn the **Power ON** Switch to the **ON** position.
2. Be sure the **E-STOP** is pulled out.
3. If the screen is not on, by touching the screen will activate back light.
4. Press the **RESET** button on front panel to activate power to machine.
5. Be sure blanks are loaded on hopper.
6. Set the **MANUAL MODE/AUTO MODE** button to **AUTO MODE** on touch screen.
7. Set the **RUN MODE/STEP MODE** button to **RUN MODE** on touch screen.
8. Press the **START** button.

PLEASE NOTE: Your machine is equipped with the AUTO IDLER FUNCTION. Located on the discharge side of you machine you will find a photo eye and cable. This photo eye should be mounted at a location where it will sense tray that is back upped in your product line. When these trays are seen by the photo eye you machine will go into idle mode until your line begins production again and the tray that is sensed moves.

OPERATOR INTERFACE

OVERVIEW

The Operator Interface allows the user to perform machine functions and setup User Parameters to modify operation.

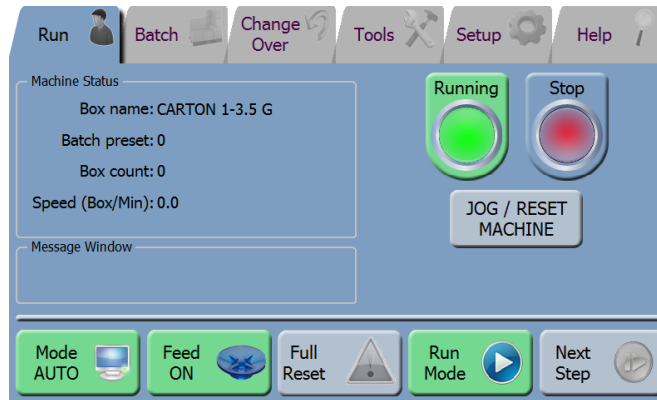
User Parameters are password protected.

1. SPLASH SCREEN



The Splash Screen is displayed on system start.

2. RUN SCREEN



The above screen shows the functions of the machine.

The top menu bar allows the operator to navigate the RUN, BATCH, CHANGE OVER, TOOLS, SETUP and HELP screens.

The START button is used to turn ON the machine. Once the alarm goes off, the machine will start to move all its mechanisms according to the selected functions.

The STOP button is used to turn OFF the machine. If a machine cycle is in progress, the cycle will first be completed before the machine will stop.

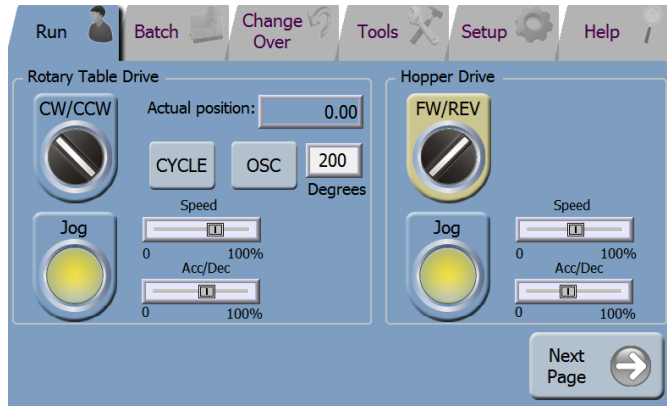
The MANUAL MODE/AUTO MODE pushbutton is used to set the machine in manual or automatic mode. In Manual Mode, the Auto Idle sensor at the exit of the machine is ignored. The machine continues producing boxes even if cases are blocking the exit of the machine. If this button is pressed, the AUTO MODE is engaged. In this mode, the machine will stop cycling when the Auto Idle sensor at the exit of machine is blocked for a preset time. This prevents the machine from producing boxes into a blocked exit.

The RUN MODE/STEP MODE is used for continuous operations or indexes the machine in steps for diagnostic purposes. If the machine is in STEP MODE, you must use the NEXT STEP button to order the execution of the next step in the cycle.

The Machine status area contains some useful information such as the name of the product currently running, the batch preset and the amount of boxes produced.

A RESET pushbutton will be shown only during faults and will reset any fault allowing the machine to start again.

The Jog Machine button allows jogging the machine servo drive (Rotary Table and Holpper) for troubleshooting or removing any product from the machine.



When jogging the machine first select the direction (Forward/Reverse) on the corresponding selector switch and then press the Jog button. After an audible alarm the selected motor will start jogging at the desired speed.

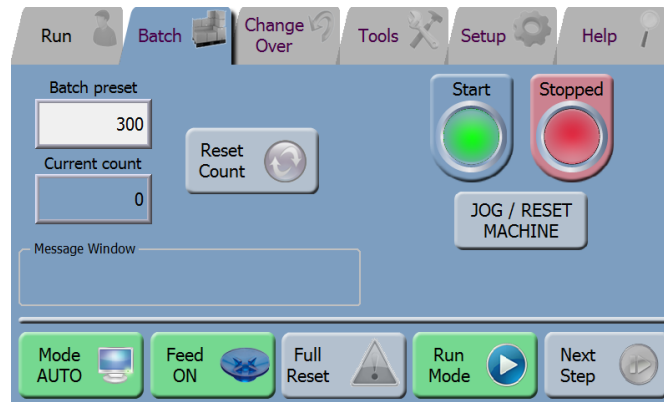
You can also use the functions of CYCLE and OSC from this page.

The CYCLE function: the table rotates 30 degrees continuously, making short breaks.

The function of OSC: the table rotates in one direction to the indicated position and then turns in the other direction, so it remains while this function is enabled

3. BATCH JOBS SCREEN

Enter this screen by pressing the BATCH tab on the Menu bar.



Before and after perform a batch job, is recommended to remove all the remaining boxes on the machine and put them with the rest of the product.

The BATCH PRESET field displays and allows entry of the desired preset count of products to be completed. Once the machine start, this value cannot be modified unless the machine stops and RESET COUNT is pressed. Entering a quantity of zero will run the machine continuously until the STOP button is pressed.

The CURRENT COUNT field displays the number of products currently completed. When RESET COUNT button is pressed, this value is set to zero.

The START button is used to turn ON the machine. Once the alarm goes off, the machine will start to move all its mechanisms according to the selected functions.

The STOP button is used to turn OFF the machine. If a machine cycle is in progress, the cycle will first be completed before the machine will stop.

The other functions are the same explained previously at the RUN screen.

4. CHANGE OVER SCREEN

Enter this screen by pressing the CHANGE OVER tab on the Menu bar.

YOU CANNOT PERFORM A CHANGE OVER WITH THE MACHINE RUNNING
STOP THE MACHINE FIRST

Product name	Change over adjustments		
CARTON 1-3.5 G	1.- 1.56	7.- 0	14.- 3.25
Box dimensions	2.- 4.56	8.- 2.50	14A.- 5.37
Length (in): 3.12	3.- 4.25	9.- 2.87	15.- 2.50
Width (in): 3.12	3A.- 6.06	10.- 2.50	15A.- 1
Depth (in): 2.50	3B.- 1.00	10A.- 3.50	16.- 2.50
Prod. dimensions	4.- 2.37	11.- 1	17.- Set 1
Height (in): 2.25	4A.- 5.00	12.- 3.00	18.- 3.12
Diameter (in): 2.93	5.- 3.00	12A.- On Demand	
	6.- 3.00	13.- 3.00	

MOVE

Assisted Change Over

This screen allows selecting the tray to form and should be used on every change over. The BOX TO FORM determines the operational settings of the machine for different case sizes. It is possible to modify the BOX TO FORM by pressing the input box or using the Next Box and Previous Box buttons. The BOX TO FORM input box will be shown only when the machine has stop completely, since is not possible to change the tray size while the machine is running.

Every adjustment is identified by a number on the machine. This screen also shows every change over adjustments for the selected box. Execute the adjustments in ascendant order whenever possible.

A more detailed change over description is available by pressing the ASSISTED CHANGE OVER button.

5. TOOLS SCREEN

Enter this screen by pressing the TOOLS tab on the Menu bar.

INPUTS

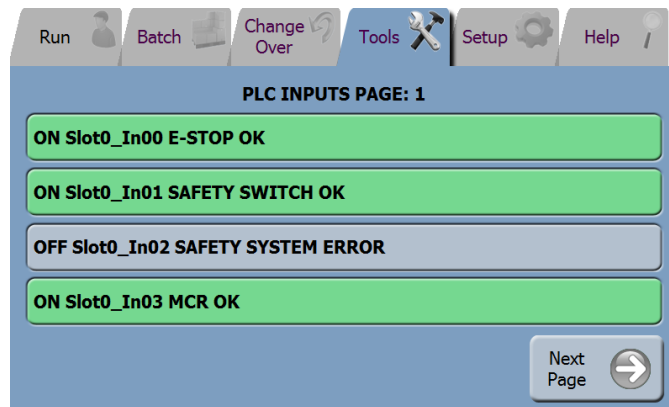
OUTPUTS

MAINTENANCE

This screen is very useful to diagnose the machine. The INPUTS and OUTPUTS pushbutton switches to the inputs and outputs screen respectively where all PLC inputs and output status are displayed. The MAINTENANCE pushbutton allows entry to the maintenance screen for troubleshooting purposes.

6. INPUTS SCREEN

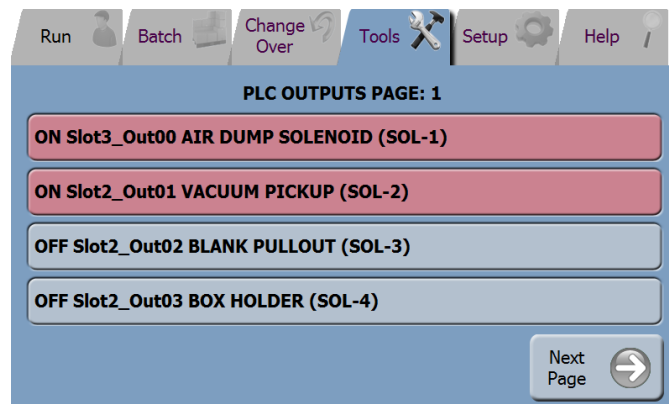
Enter this screen by pressing the TOOLS tab on the Menu bar and then press the INPUTS button.



The INPUTS SCREENS display the status of the PLC inputs.

7. OUTPUTS SCREEN

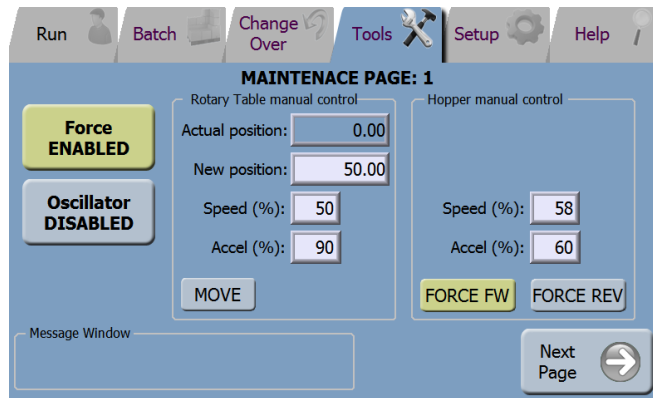
Enter this screen by pressing the TOOLS tab on the Menu bar and then press the OUTPUTS button.



The OUTPUTS SCREENS display the status of the PLC outputs.

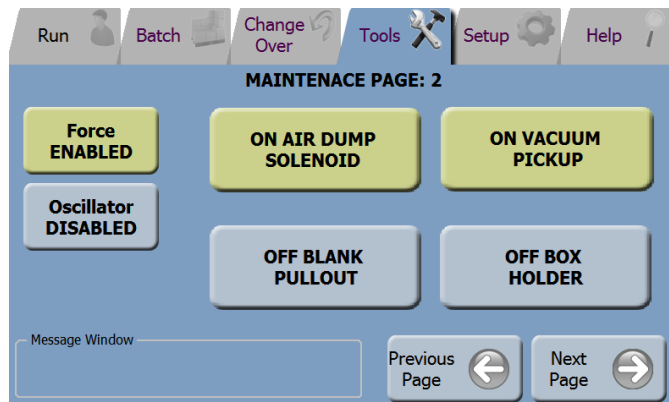
8. MAINTENANCE SCREEN

Enter this screen by pressing the TOOLS tab on the Menu bar and then the MAINTENANCE button. When the MAINTENANCE button is pressed the Password screen is displayed. Once the correct password is entered the MAINTENANCE screen is displayed.



The first screens are for the Servo Drive Control. Be caution when using these functions

The next screen is to activate all the actuators that make up the machine



These screens allow authorized personnel to force machine outputs independently for troubleshooting purposes only. Use caution when using these functions, all machine sequencing is bypassed.

To activate an output, the Force button must be ENABLED, then is possible to turn ON and OFF an output by pressing its respective button.

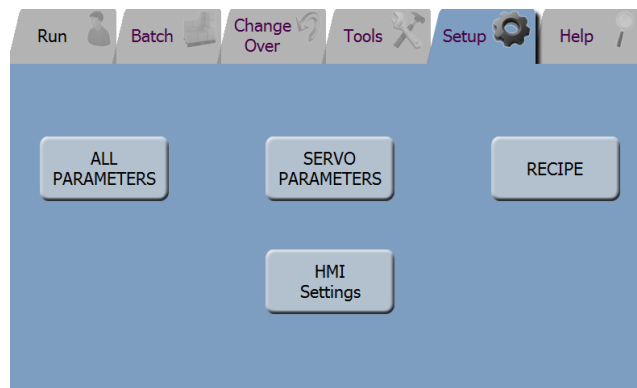
The oscillator button allows turning ON/OFF an output automatically using a desired frequency. The box for entering the ON/OFF time is showed only when the oscillator is ENABLED. This entered time is in tenth of seconds, thus means if a value of 10 is entered, the outputs will be ON one second and OFF one second.

All the outputs turned ON before activating the Oscillator will remain ON, only those outputs activated after activating the Oscillator will turn ON and OFF automatically.

Caution: Use extreme caution when using this machine mode.

9. SETUP SCREEN

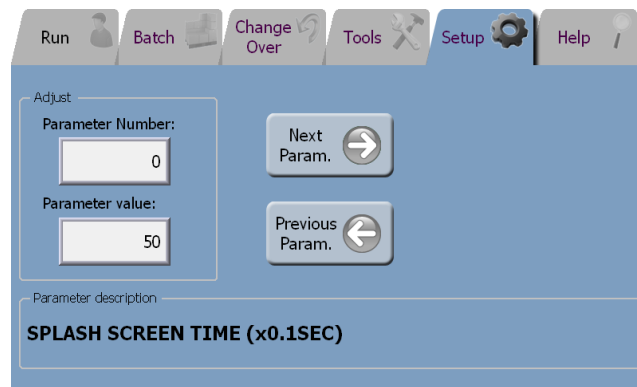
When the SETUP tab on the menu bar is pressed the Password screen is displayed. Once the correct password is entered the SETUP screen is displayed.



The PARAMETERS pushbutton allows entry to the PARAMETERS screens. The RECIPE pushbutton allows editing machine settings specific to each box. The PREVENTIVE MAINTENANCE button manages the maintenance messages and finally the HMI Settings allow access to HMI settings like backlight intensity among others.

10. PARAMETER SCREEN

Enter this screen by pressing the SETUP tab on the Menu bar, enter the correct password and then press the PARAMETER button on the SETUP screen.



The User Parameter screen is used to setup machine parameters. This screen is password protected.

Use the arrows to change the PARAMETER NUMBER field or press the corresponding input box. Press the PARAMETER VALUE input box and enter the new value. Press the ENTER key to save the new value.

The HMI Settings allow access to the HMI settings like backlight intensity and others.

11.PARAMETER VALUES

P. No.	Description	Default Config.	Custom Set 1	Custom Set 2
			Date:	Date:
0	SPLASH SCREEN TIME (MS)	5000		
1	MACHINE RUN DELAY (MS)	3000		
2	MACHINE JOG DELAY (MS)	3000		
3	MACHINE JOG MODE TIME (MS)	4000		
4	AUTO IDLER ON DELAY (MS)	2000		
5	AUTO IDLER OFF DELAY (MS)	0		
6	MACHINE IDLE TIME (SEC)	60		
7	BUZZER TIME OUT (MS)	10000		
8	ALLOWED CYCLES WITH LOW PRODUCT	1		
9	ALLOWED CYCLES WITH LOW HOPPER	15		
10	BLANK PICK RETRIES	3		
11	ROTARY TABLE HOME SEARCH SPEED (Degrees/s)	20		
12	ROTARY TABLE HOME SEARCH ACCELERATION/ DECELERATION (Degrees/s ²)	50		
13	ROTARY TABLE HOME SEARCH OFFSET (0.01Degrees)	1720		
14	ROTARY TABLE RUNNING SPEED (1-100%)	95		
15	ROTARY TABLE RUNNING ACCELERATION/ DECELERATION (1-100%)	95		
16	ROTARY TABLE RUNNING TORQUE (1-100%)	70		
17	ROTARY TABLE MOTION DELAY (MS)	30		
18	ANGULAR MOVEMENT OF THE ROTARY TABLE (0-360) DEGREES	30		
19	VACUUM PICKUP ON DELAY (MS)	0		
20	VACUUM PICKUP OFF DELAY (MS)	200		
21	BLANK PULL OUT ON DELAY (MS)	0		
22	BLANK PULL OUT OFF DELAY (MS)	500		
23	RETRACTABLE LID ON DELAY (MS)	0		
24	RETRACTABLE LID OFF DELAY (MS)	170		

P. No.	Description	Default Config.	Custom Set 1	Custom Set 2
			Date:	Date:
25	BOX HOLDER ON DELAY (MS)	300		
26	BOX HOLDER OFF DELAY (MS)	100		
27	PRODUCT PRE STOP ON DELAY (MS)	0		
28	PRODUCT PRE STOP OFF DELAY (MS)	80		
29	PRODUCT HOLDER ON DELAY (MS)	10		
30	PRODUCT HOLDER OFF DELAY (MS)	80		
31	BLANK PULL OUT ARRIVED HOME (MS)	600		
32	SPARE	0		
33	SPARE	0		
34	SPARE	0		
35	PRODUCT TOP PUSHER ON JAM TIME (MS)	500		
36	PRODUCT TOP PUSHER OFF JAM TIME (MS)	900		
37	SPARE	0		
38	SPARE	0		
39	SPARE	0		
40	SPARE	0		
41	LID FOLDER ON DELAY (MS)	100		
42	LID FOLDER OFF DELAY (MS)	80		
43	LID PUSHER ON DELAY (MS)	100		
44	LID PUSHER OFF DELAY (MS)	300		
45	BOX EJECTOR ON DELAY (MS)	40		
46	BOX EJECTOR OFF DELAY (MS)	500		
47	SPARE	0		
48	SPARE	0		
49	LOW BOX AND PRODUCT DELAY (MS)	3000		
50	ROTARY TABLE RUNNING DECELERATION (1-100%)	95		
51	HOPPER RUNNING CONTINUOUS MODE SPEED (1-100%)	50		
52	HOPPER RUNNING CONTINUOUS MODE ACC (1-100%)	40		
53	HOPPER RUNNING MOTION DELAY (MS)	300		
54	HOPPER RUNNING TORQUE (1-100%)	60		

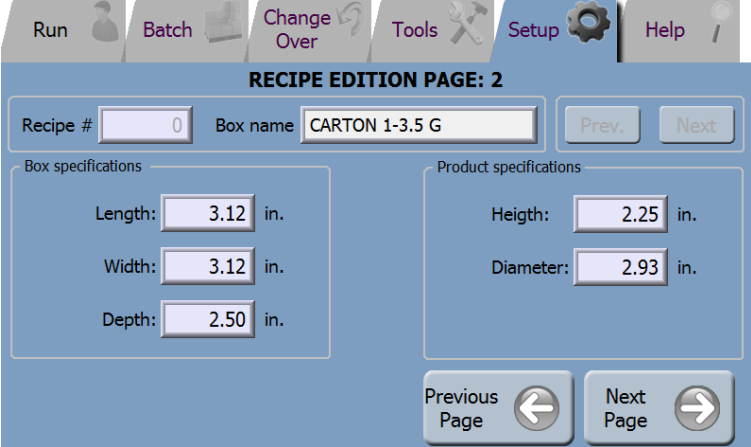
P. No.	Description	Default Config.	Custom Set 1	Custom Set 2
			Date:	Date:
55	HOPPER RUNNING STEP MODE SPEED (1-100%)	30		
56	HOPPER RUNNING STEP MODE ACC (1-100%)	40		
57	HOPPER RUNNING STEP SHORT MOVE (X0.01INCH)	100		
58	HOPPER RUNNING STEP LONG MOVE (X0.01INCH)	350		
59	AIR NOZZLE ON DELAY (MS)	0		
60	AIR NOZZLE OFF DELAY (MS)	500		
61	HOPPER RUNNING CONTINUOUS MODE DEC (1-100%)	100		
62	HOPPER RUNNING STEP MODE DEC (1-100%)	60		
63	BLANK PICK UP START POSITION DEGREE	25		
64	VACUUM TOP PUSHER ON DELAY (MS)	0		
65	VACUUM TOP PUSHER OFF DELAY (MS)	300		
66	419109 MACHINE IDLE CYCLES	10		
67	PRODUCT READY TIME	240		
68	SPARE	0		
69	SPARE	0		
70	SPARE	0		
71	SPARE	0		
72	SPARE	0		
73	SPARE	0		
74	SPARE	0		
75	SPARE	0		
76	SPARE	0		
77	SPARE	0		
78	SPARE	0		
79	SPARE	0		
80	SPARE	0		
81	FACTORY TESTING MODE (0 = OFF, 1 = ON)	0		
82	SPARE	0		
83	SPARE	0		
84	SPARE	0		
85	SPARE	0		
86	SPARE	0		
87	SPARE	0		

P. No.	Description	Default Config.	Custom Set 1	Custom Set 2
			Date:	Date:
88	SPARE	0		
89	SPARE	0		
90	BUZZER PATTERN - MACHINE START WARNING ON TIME (MS)	500		
91	BUZZER PATTERN - MACHINE START WARNING OFF TIME (MS)	500		
92	BUZZER PATTERN - LOW PRODUCT WARNING ON TIME (MS)	200		
93	BUZZER PATTERN - LOW PRODUCT WARNING OFF TIME (MS)	4500		
94	BUZZER PATTERN - AUTOIDLER WARNING ON TIME (MS)	500		
95	BUZZER PATTERN - AUTOIDLER WARNING OFF TIME (MS)	4500		
96	BUZZER PATTERN - BATCH DONE WARNING ON TIME (MS)	1500		
97	BUZZER PATTERN - BATCH DONE WARNING OFF TIME (MS)	1000		
98	BUZZER PATTERN - MACHINE FAULT ALARM ON TIME (MS)	1000		
99	BUZZER PATTERN - MACHINE FAULT ALARM OFF TIME (MS)	1000		

12. RECIPE SCREEN

Access this screen by pressing the SETUP tab on the Menu bar, enter the correct password and then press the RECIPE button on the SETUP screen.

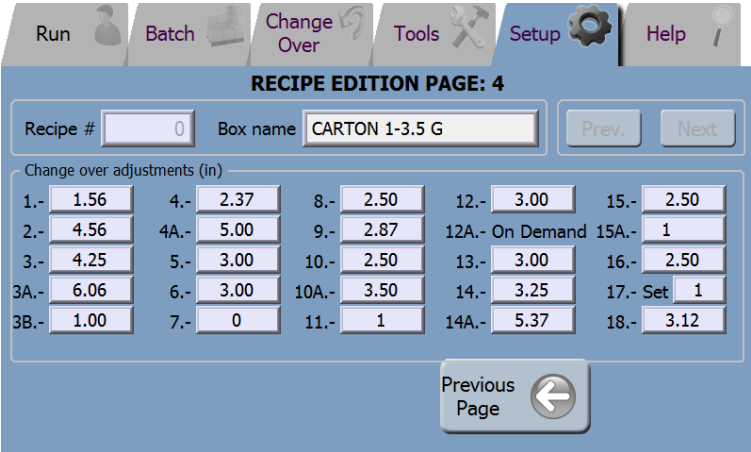
The first step working on these screens is entering the RECIPE # in the top left side of the window; all the values of the screens are updated to this value.



The Prev. and Next buttons allow scrolling the recipes back and forth.

The recipe copy feature allows the user to duplicate all the values on a recipe into another recipe, just enter the source and target recipe and press the COPY RECIPE button.

The Next Page, access to box and product dimensions as well as the product feeding settings:



The next screen adjusts other settings on the machine.

Run Batch Change Over Tools Setup Help

RECIPE EDITION PAGE: 3

Recipe # Box name

Minor Kicker Timer

On Delay: MS Ex Dly: MS

Off Delay: MS

Top Pusher Timer

On Delay: MS

Off Delay: MS

Previous Page Next Page

13. RECIPE VALUES

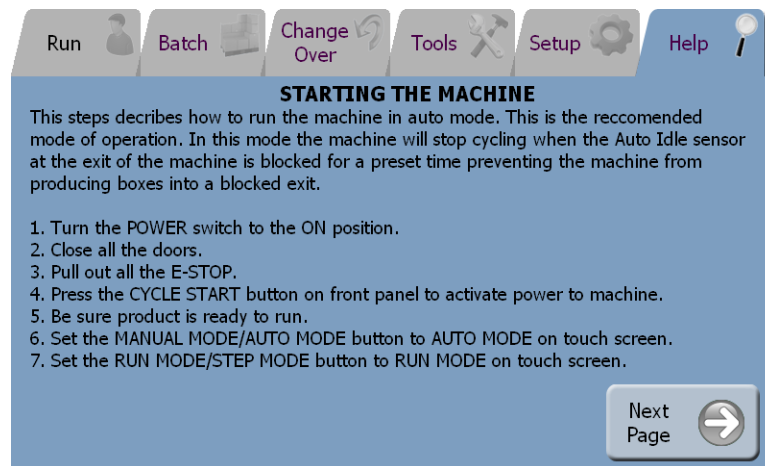
Case #: 1	Case name: CARTON 1-3.5 G		
Description	Default Config.	Custom Set 1	Custom Set 2
		Date:	Date:
Box length	3.12		
Box width	3.12		
Box depth	2.50		
Product Height	2.25		
Product Diameter	2.93		
Minor Kicker On Dly	55		
Minor Kicker Off Dly	140		
Minor Kicker Extra Dly	8		
Top Pusher On Dly	140		
Top Pusher Off Dly	40		
Adjustments 1	1.56		
Adjustments 2	4.56		
Adjustments 3	4.25		
Adjustments 3A	6.06		
Adjustments 3B	1.00		
Adjustments 4	2.37		
Adjustments 4A	5.00		
Adjustments 5	3.00		
Adjustments 6	3.00		
Adjustments 7	0		
Adjustments 8	2.50		
Adjustments 9	2.87		
Adjustments 10	2.50		
Adjustments 10A	3.50		
Adjustments 11	1		
Adjustments 12	3.00		
Adjustment 12A	O.D.		
Adjustments 13	3.00		
Adjustments 14	3.25		
Adjustments 14A	5.37		
Adjustments 15	2.50		
Adjustment 15A	1		
Adjustments 16	2.50		
Adjustments 17 SET	1		
Adjustments 18	3.12		

Case #: 2	Case name: CARTON 5-7 G		
Description	Default Config.	Custom Set 1	Custom Set 2
		Date:	Date:
Box length	3.12		
Box width	3.12		
Box depth	3.25		
Product Height	2.93		
Product Diameter	2.93		
Minor Kicker On Dly	55		
Minor Kicker Off Dly	140		
Minor Kicker Extra Dly	8		
Top Pusher On Dly	140		
Top Pusher Off Dly	40		
Adjustments 1	1.56		
Adjustments 2	4.55		
Adjustments 3	4.25		
Adjustments 3A	6.75		
Adjustments 3B	1.00		
Adjustments 4	2.43		
Adjustments 4A	4.75		
Adjustments 5	3.12		
Adjustments 6	3.00		
Adjustments 7	0		
Adjustments 8	2.50		
Adjustments 9	2.87		
Adjustments 10	3.50		
Adjustments 10A	3.50		
Adjustments 11	2		
Adjustments 12	3.00		
Adjustment 12A	O.D.		
Adjustments 13	2.87		
Adjustments 14	3.12		
Adjustments 14A	6.12		
Adjustments 15	3.31		
Adjustment 15A	1		
Adjustments 16	3.28		
Adjustments 17 SET	1		
Adjustments 18	3.12		

Case #: 3	Case name: CARTON 10-15 G		
Description	Default Config.	Custom Set 1	Custom Set 2
		Date:	Date:
Box length	3.50		
Box width	3.50		
Box depth	3.25		
Product Height	3.18		
Product Diameter	3.37		
Minor Kicker On Dly	55		
Minor Kicker Off Dly	150		
Minor Kicker Extra Dly	8		
Top Pusher On Dly	140		
Top Pusher Off Dly	40		
Adjustments 1	1.75		
Adjustments 2	5.25		
Adjustments 3	3.75		
Adjustments 3A	5.37		
Adjustments 3B	1.12		
Adjustments 4	3.25		
Adjustments 4A	3.62		
Adjustments 5	3.50		
Adjustments 6	3.37		
Adjustments 7	0		
Adjustments 8	3.25		
Adjustments 9	3.25		
Adjustments 10	3.25		
Adjustments 10A	3.37		
Adjustments 11	3		
Adjustments 12	3.37		
Adjustment 12A	O.D.		
Adjustments 13	3.37		
Adjustments 14	3.50		
Adjustments 14A	6.62		
Adjustments 15	3.25		
Adjustment 15A	2		
Adjustments 16	3.25		
Adjustments 17 SET	2		
Adjustments 18	3.62		

14.HELP SCREEN


At any time the HELP tab is accessible with some basic instructions to operate the machine Detailed explanations will be found in this manual.



STARTING THE MACHINE

This steps describes how to run the machine in auto mode. This is the recommended mode of operation. In this mode the machine will stop cycling when the Auto Idle sensor at the exit of the machine is blocked for a preset time preventing the machine from producing boxes into a blocked exit.

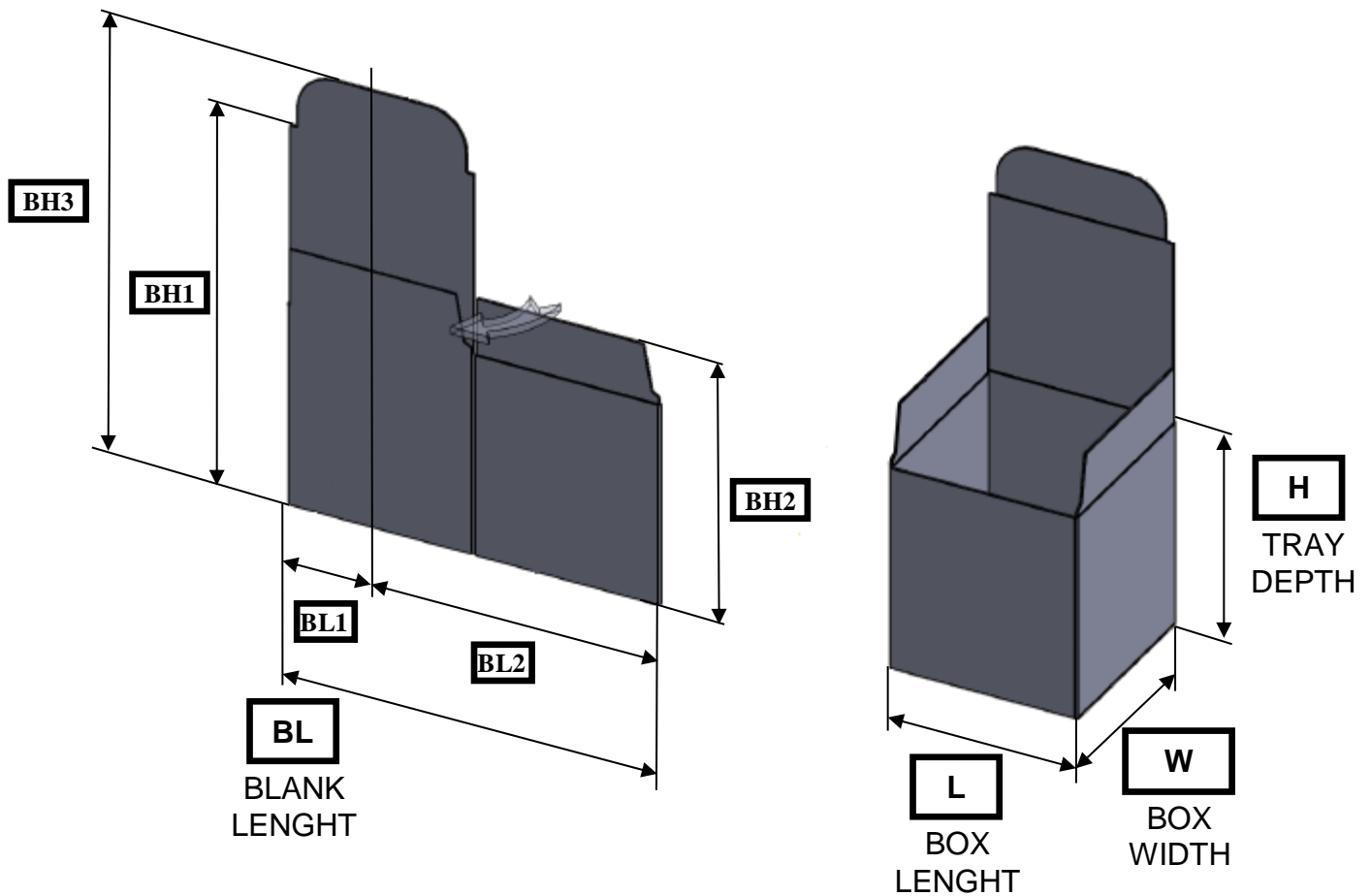
1. Turn the POWER switch to the ON position.
2. Close all the doors.
3. Pull out all the E-STOP.
4. Press the CYCLE START button on front panel to activate power to machine.
5. Be sure product is ready to run.
6. Set the MANUAL MODE/AUTO MODE button to AUTO MODE on touch screen.
7. Set the RUN MODE/STEP MODE button to RUN MODE on touch screen.

Next Page 

CHANGE-OVER

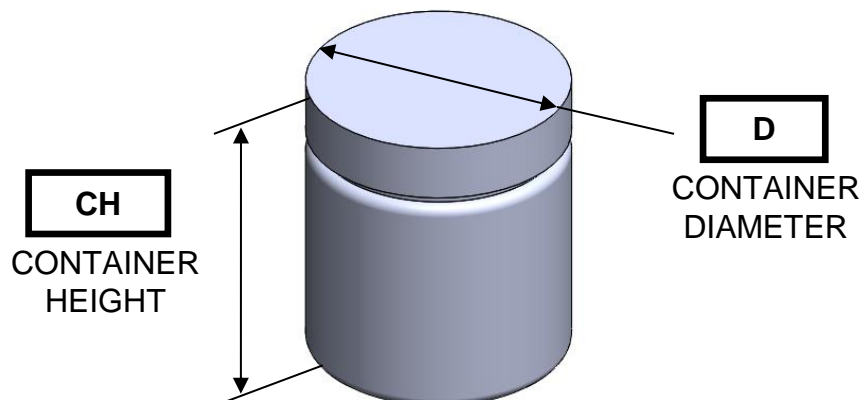
MASTER CASE LAYOUT

The following are the case dimensions required for the changeover.

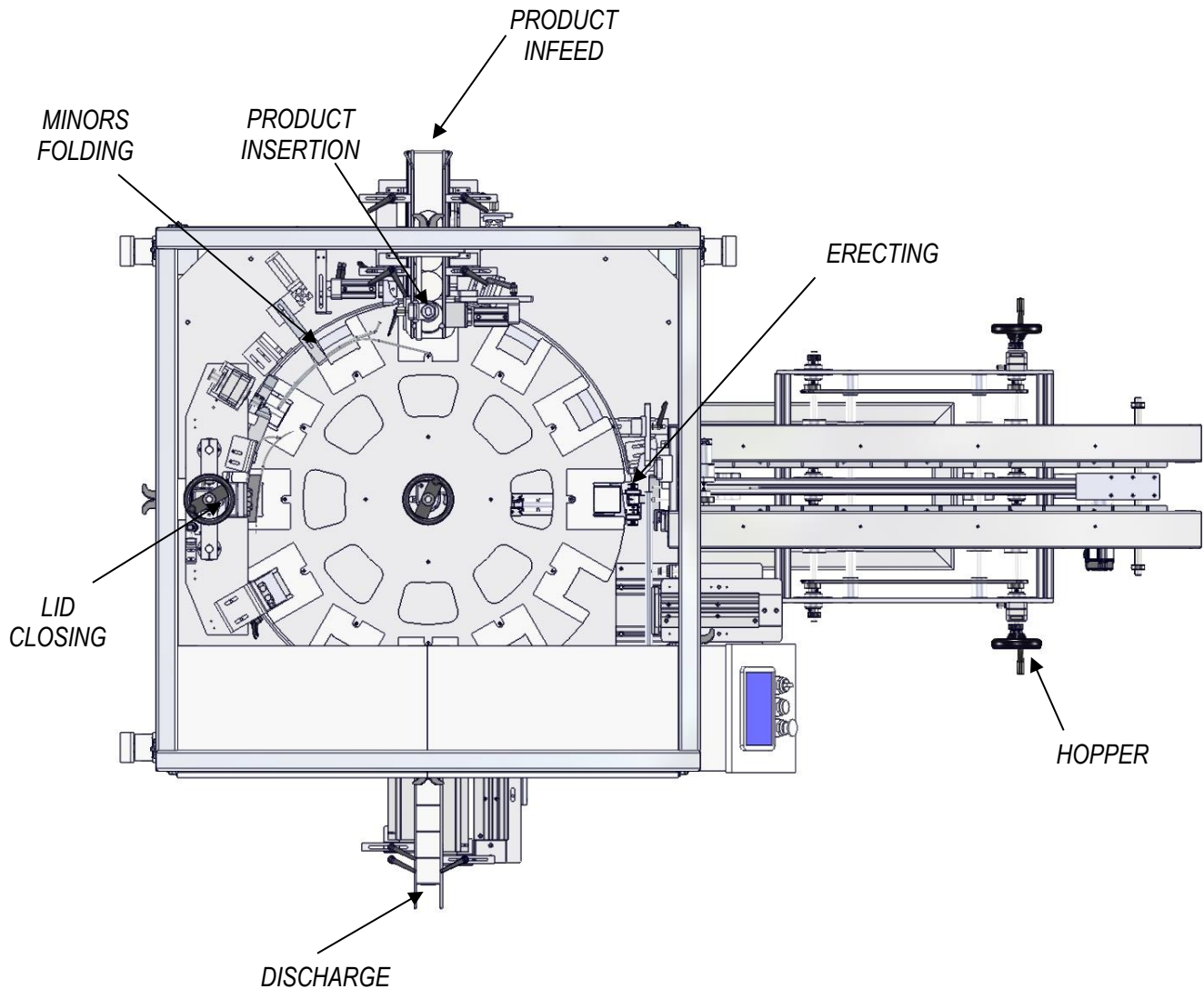


PRODUCT LAYOUT

The detail below shows the dimensions of the cans. These dimensions will be the settings required to adjust the machine.



CHANGE OVER ITEMS



The detail above shows the two center lines where all the adjustments must converge. It also shows the different sections of the machine.

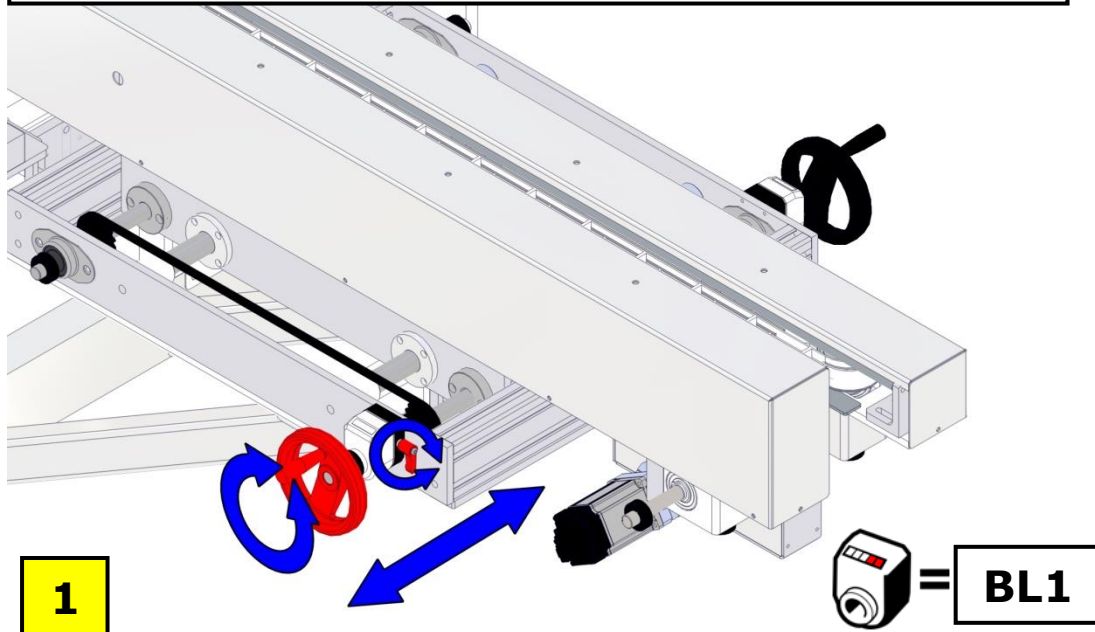
WARNING

DO NOT MAKE ADJUSTMENTS TO THIS MACHINE WHILE THE MACHINE IS RUNNING. The machine should be turned off and the shutoff valve to the pneumatic line closed to assure the safety of the operator when making these adjustments.

1. HOPPER ADJUSTMENT LEFT



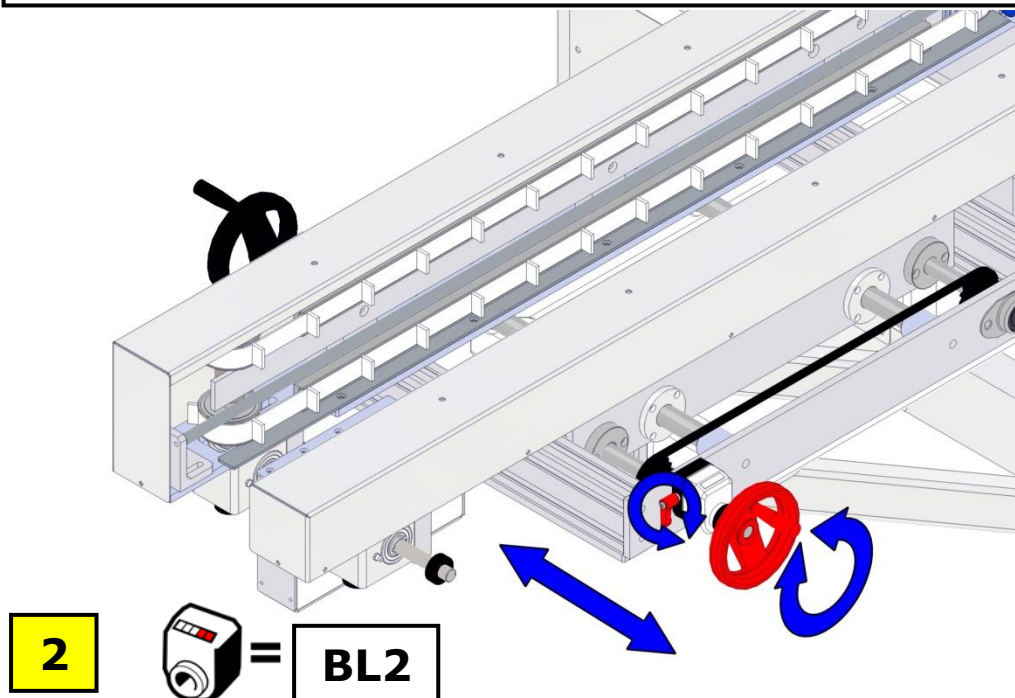
Loosen the locking handle. Move **HOPPER ADJ LEFT** inward or outward according to the blank length "**BL1**" of the box. Tighten the handle.



2. HOPPER ADJUSTMENT RIGHT



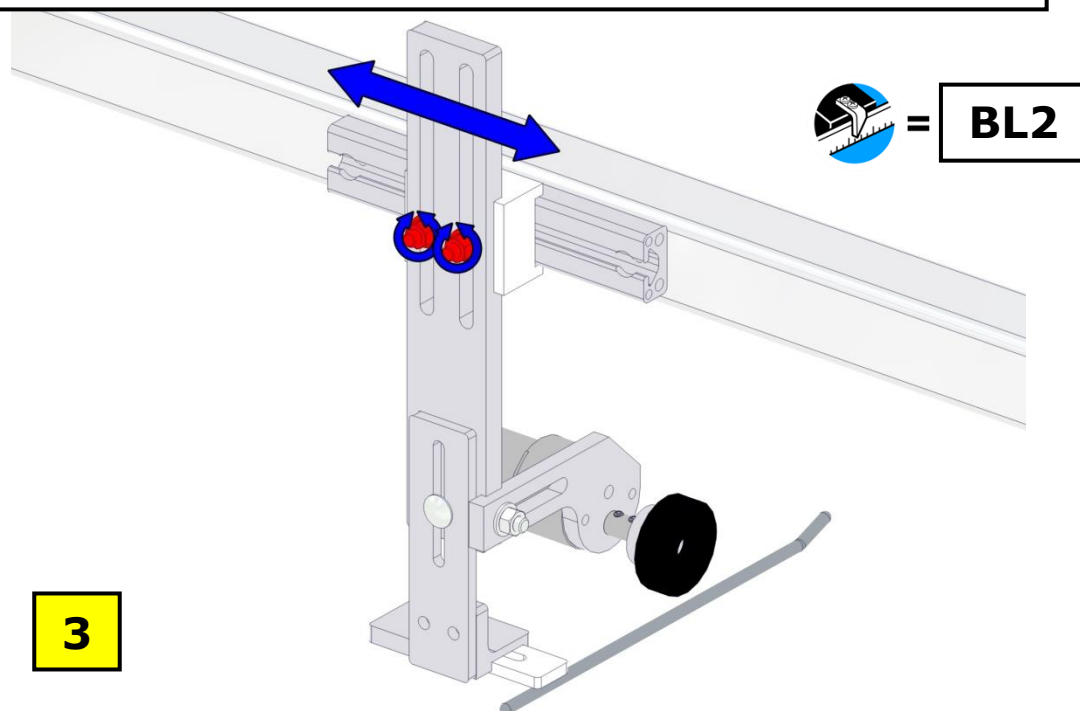
Loosen the locking handle. Move **HOPPER ADJ RIGHT** inward or outward according to the blank length "**BL2**" of the box. Tighten the handle.



3. BLANK TOP HOLDER



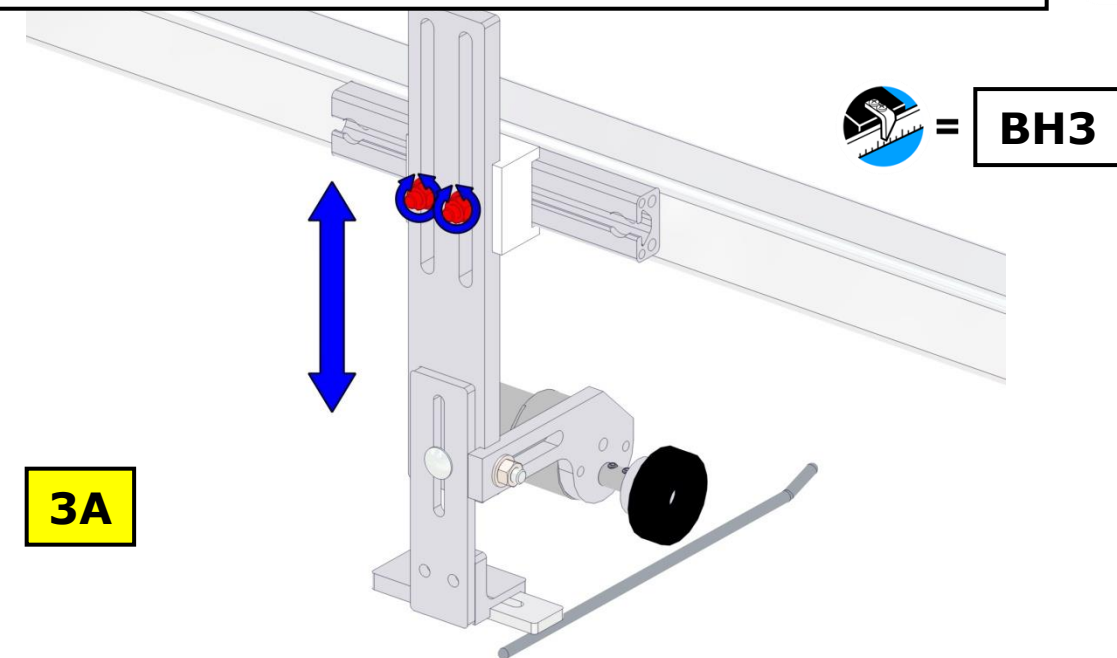
Loosen the nuts. Move the **BLANK TOP HOLDER** left or right according to dimension "**BL2**" of the box. Tighten the nuts.



3A. BLANK TOP HOLDER



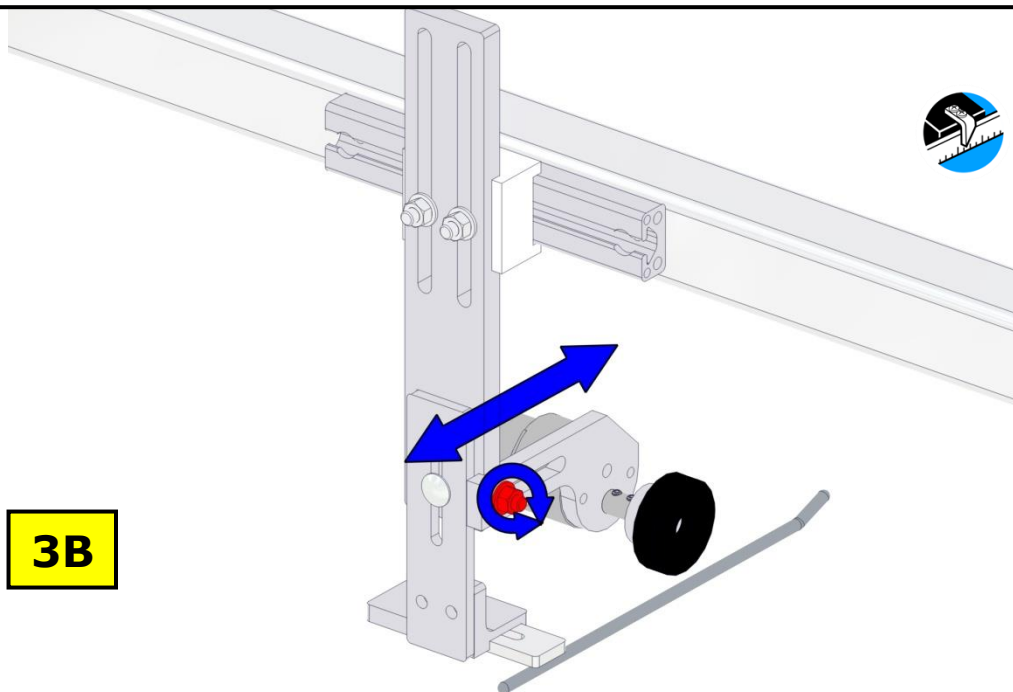
Loosen the nuts. Move the **BLANK TOP HOLDER** up or down according to dimension "**BH3**" of the box. Tighten the nuts.



3B. BLANK TOP HOLDER



Loosen the nut. Move the **BLANK TOP HOLDER** according to the recipe of the box to run. Tighten the nut.

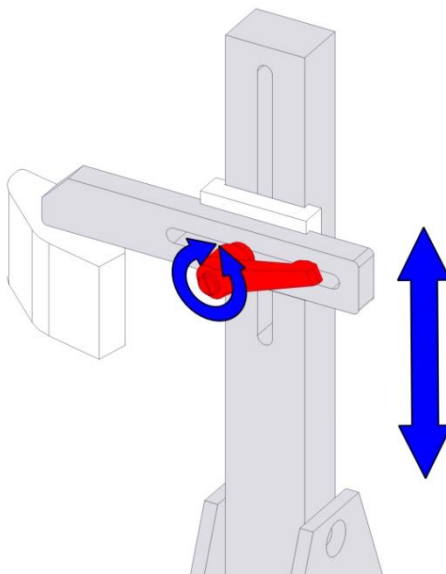


3B


4. TOP GUIDE



Loosen the handle. Move the **TOP GUIDE** up or down, according to the box dimension "**BH2**". Tighten the handle.



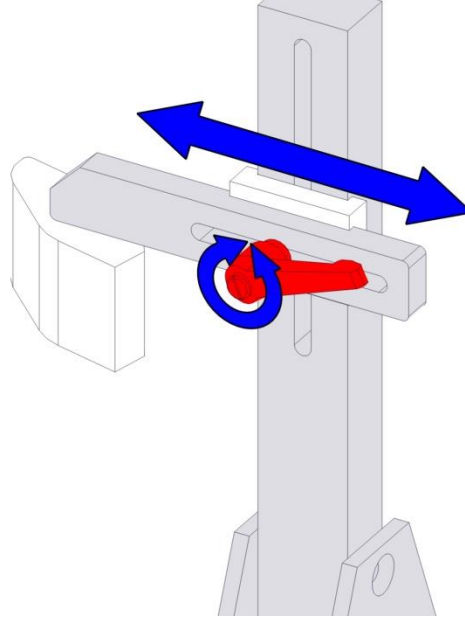
4

 = **BH2**

4A. TOP GUIDE



Loosen the handle. Move the **TOP GUIDE** inward or outward according to the blank length "**BL2**" of the box. Tighten the handle.



4A

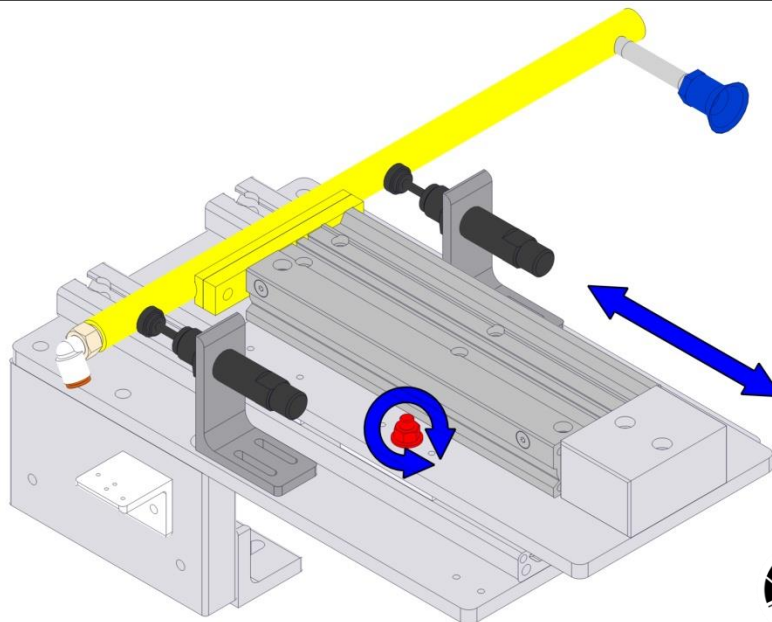


= **BL2**

5. PULLOUT



Loosen the two nuts. Move **PULLOUT** inward or outward according to the box width "**W**" of the box. Tighten the nuts.



5

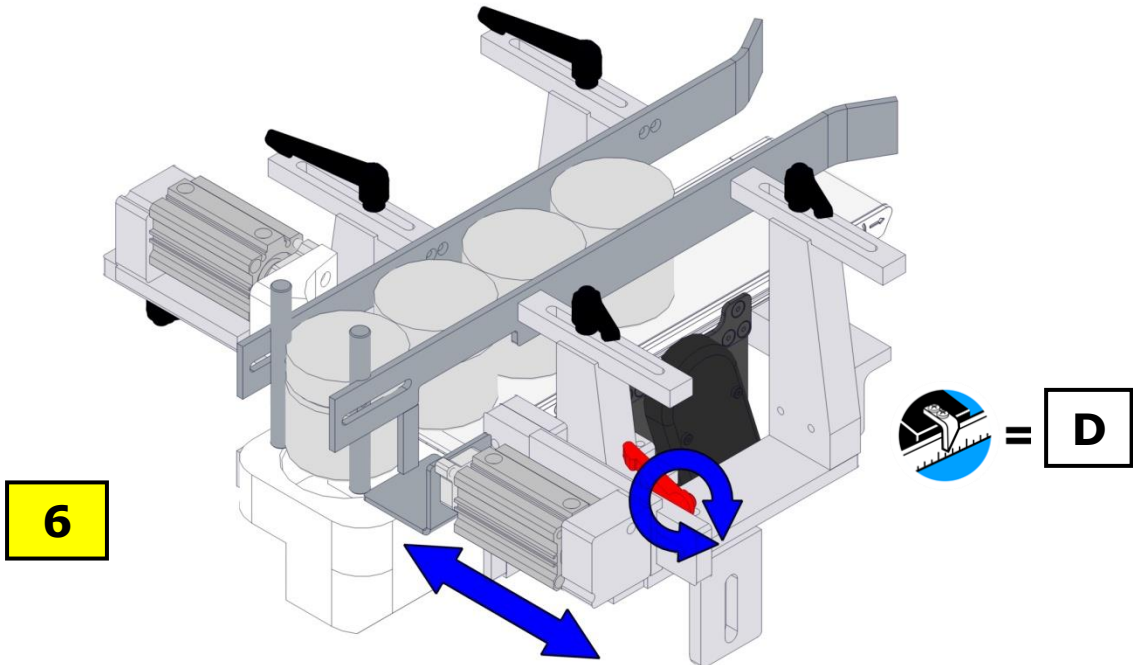


= **W**

6. PRODUCT HOLDER



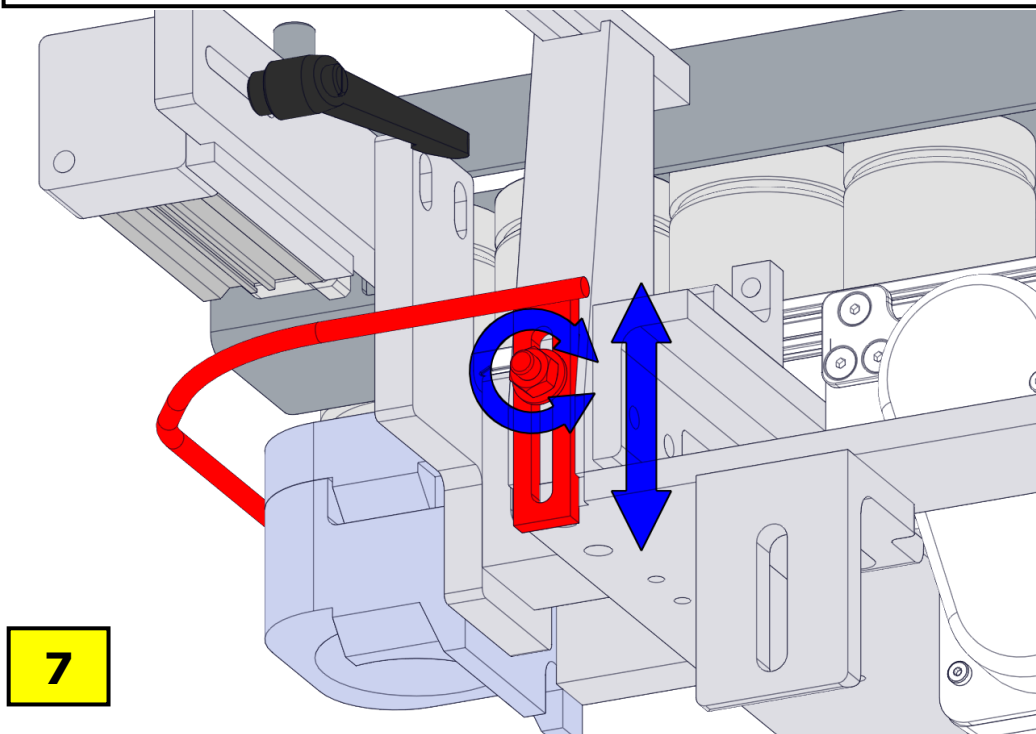
Loosen the locking handle. Move the **PRODUCT HOLDER** according to the diameter "D" of the product. Tighten the handle.



7. LID GUIDE #1



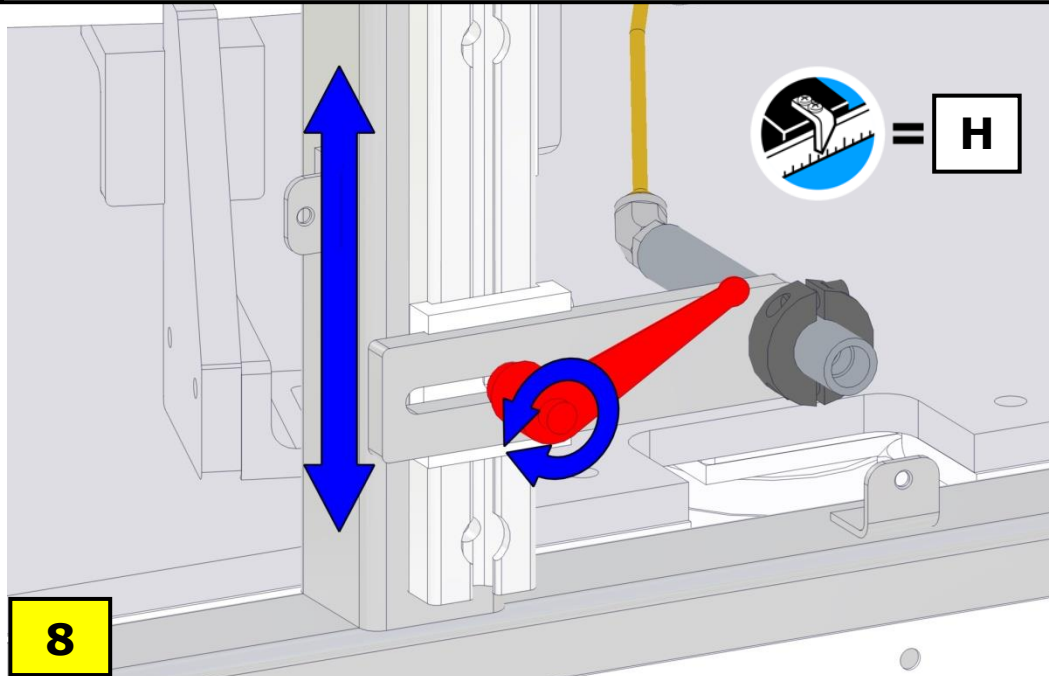
Loosen the locking nut. Move the lid guide #1 until the position according to the box to run. Tighten the locking nut.



8. BLOWER ADJUSTMENT



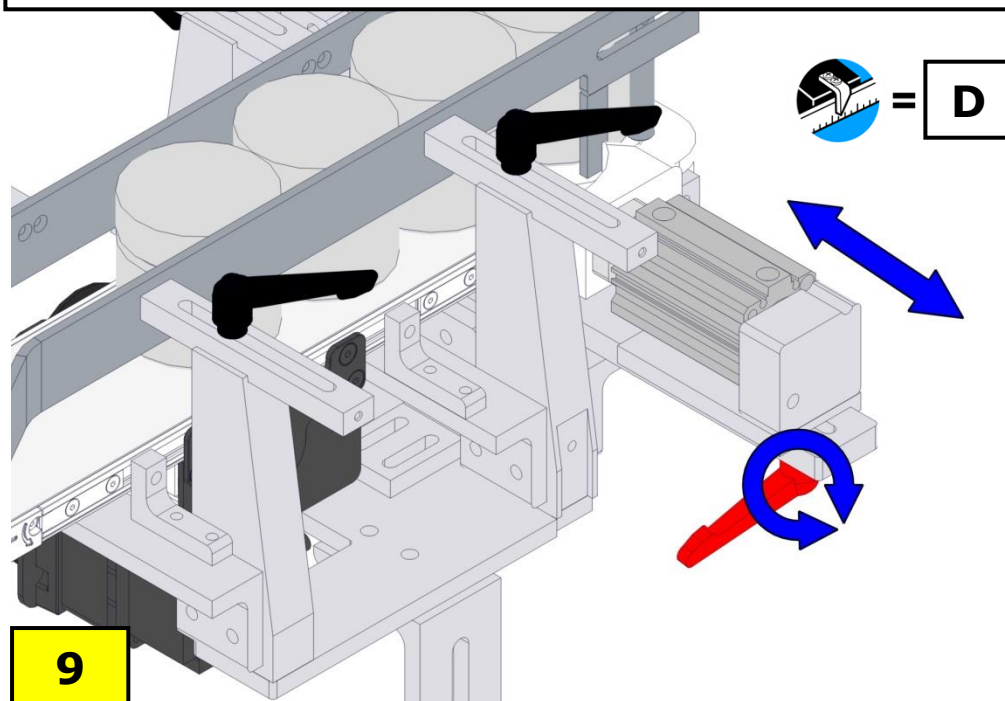
Loosen the locking handle. Move the blower according to the box to run. Tighten the locking handle.



9. PRODUCT PRE-STOP



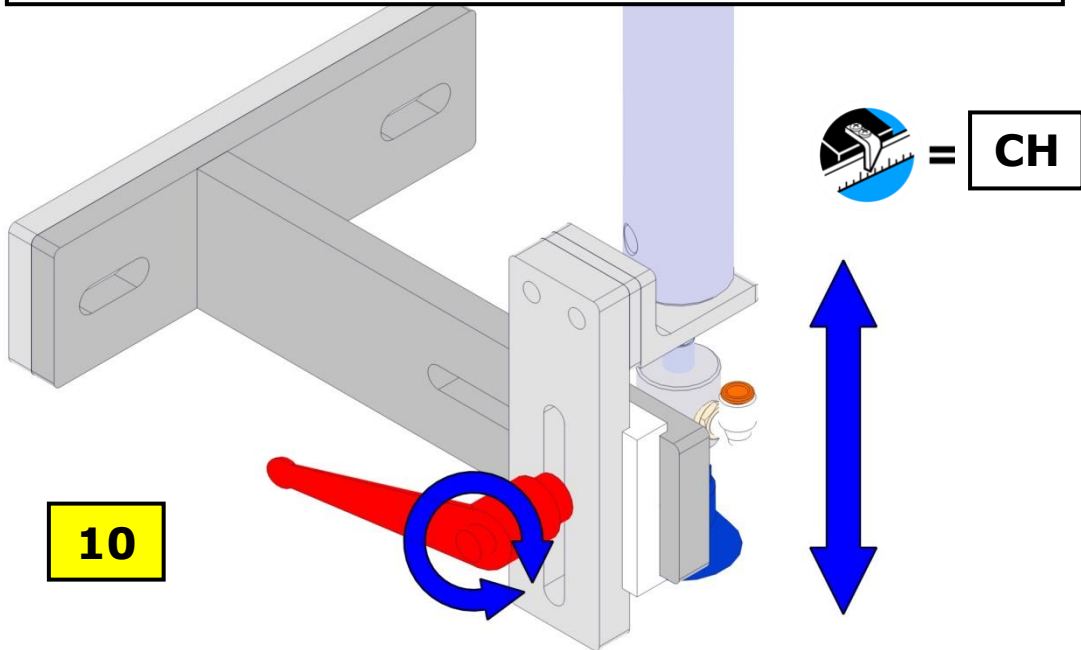
Loosen the locking handle. Move the pre-stop according to the diameter "D" of the product. Tighten the handle.



10. PRODUCT PUSHER



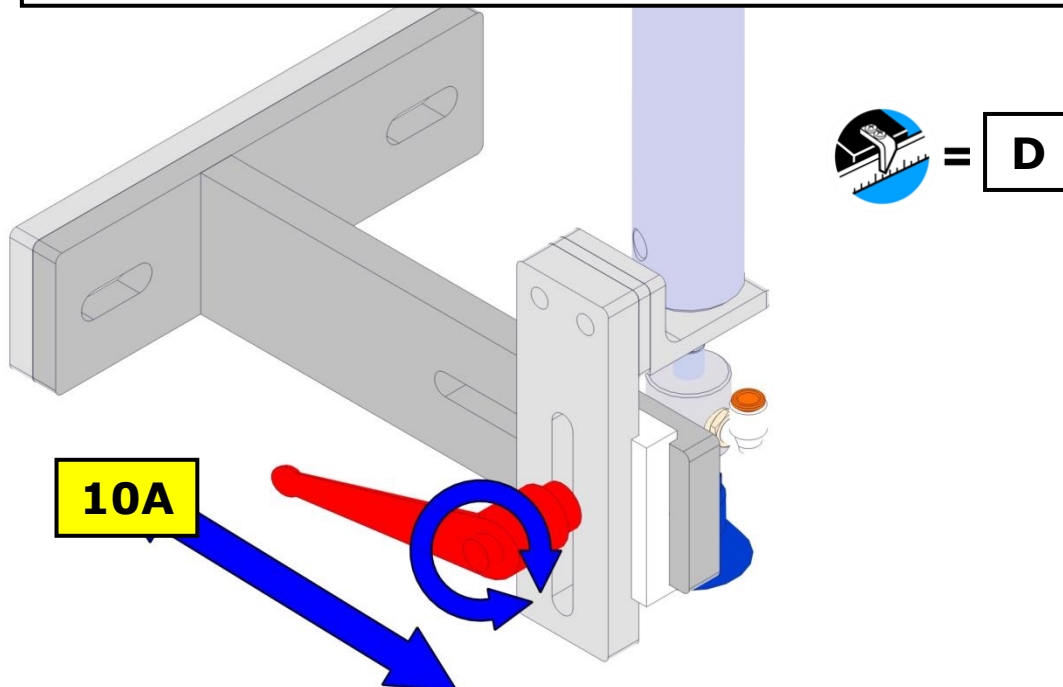
Loosen the locking handle. Move the cylinder up or down according to the height "CH" of the product. Tighten the locking handle.



10A. PRODUCT PUSHER



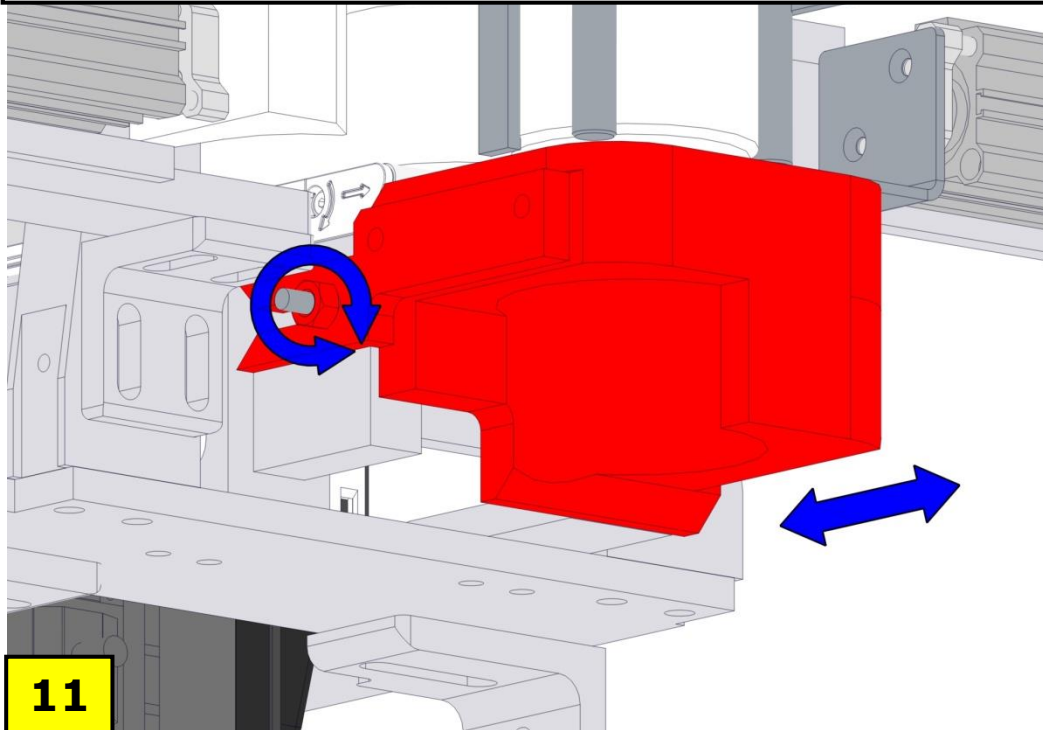
Loosen the locking handle. Move the cylinder inward or outward according to the DIAMETER "D" of the product. Tighten the locking



11. REMOVABLE CHUTE



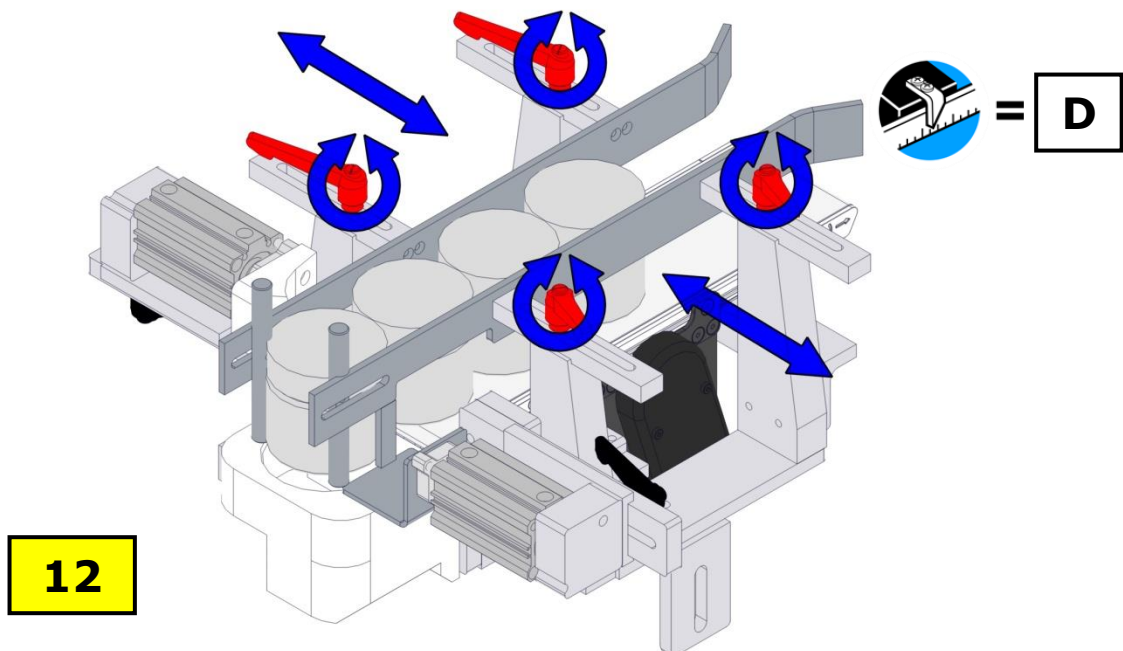
Loosen the nut. Locate or remove the removable chute according to the box to run. Tighten the nut.



12. PRODUCT GUIDE



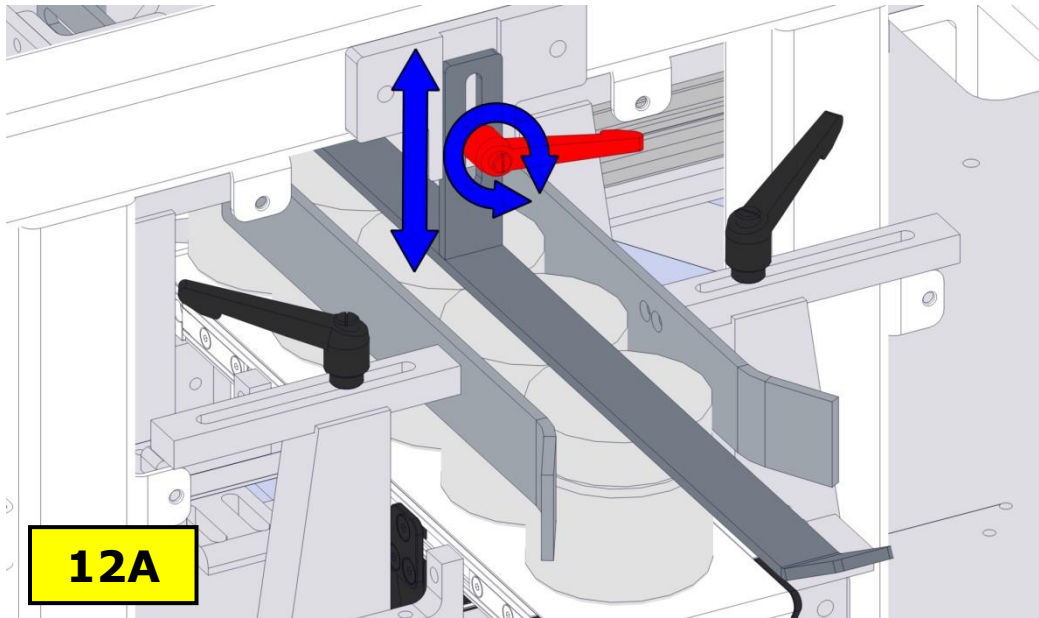
Loosen the locking handles. Move the guides according to the diameter "D" of the Product. Tighten the locking handles.



12A. PRODUCT GUIDE



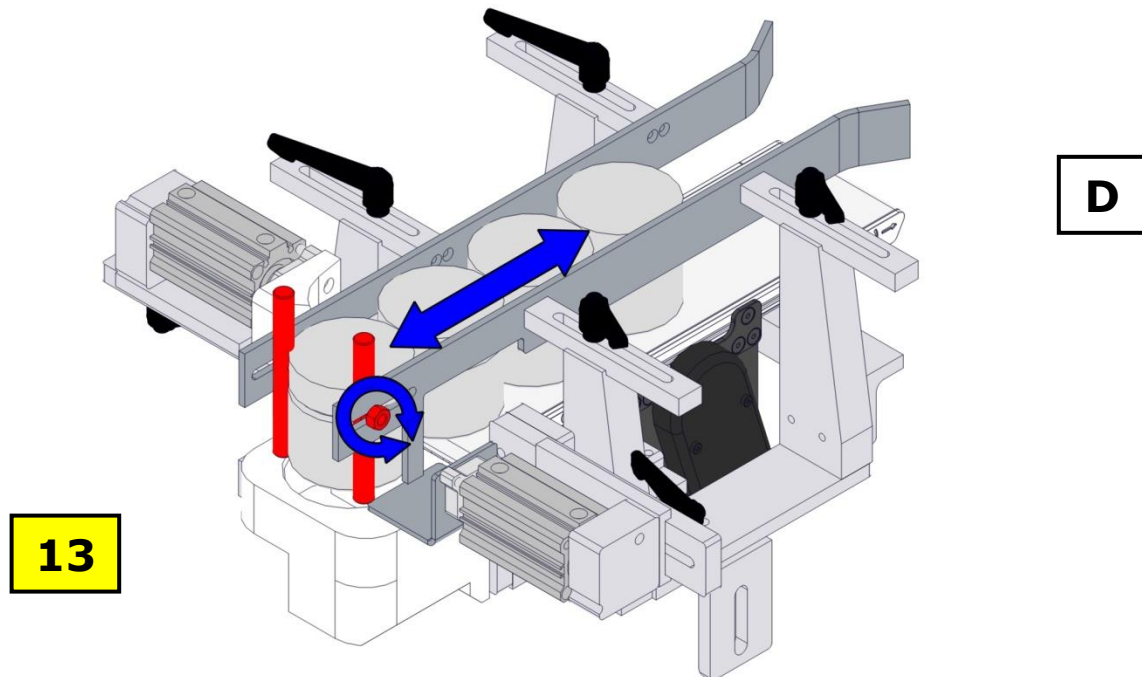
Loosen the locking handles. Move the guides up or down according to the height of the product. Tighten the locking handle.



13. PRODUCT END STOP



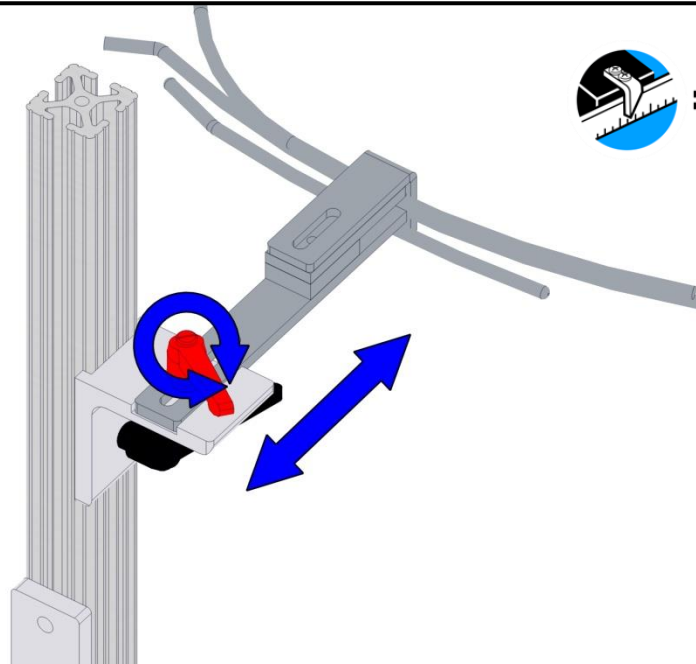
Loosen the nuts. Move the **END STOP** according to the diameter "D" of the product. Tighten the nut.



14. LID GUIDE #2



Loosen the locking handle. Move the **LID GUIDE #2** inward or outward according to the width "**W**" of the box. Tighten the locking handle.

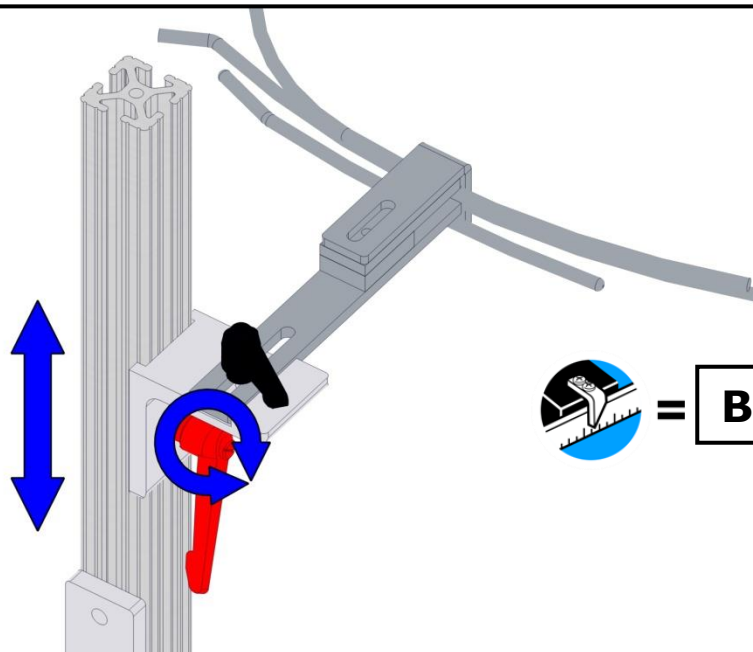


14

14A. LID GUIDE #2



Loosen the locking handle. Move the **LID GUIDE #2** up or down according to the dimension "**BH1**" of the box. Tighten the locking handle.

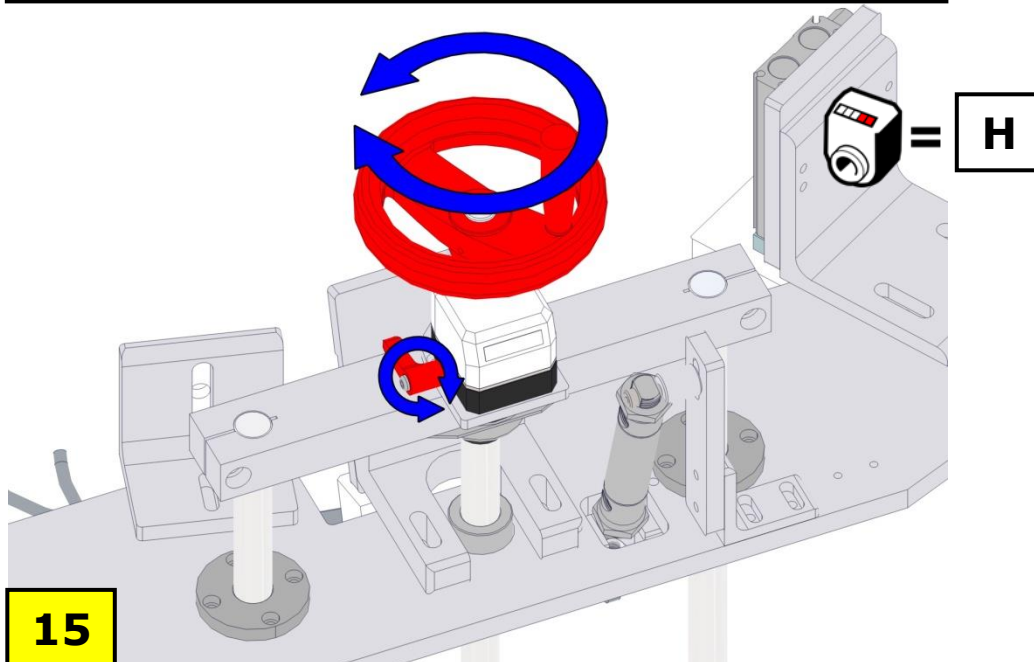


14A

15. LID CLOSE ASSEMBLY



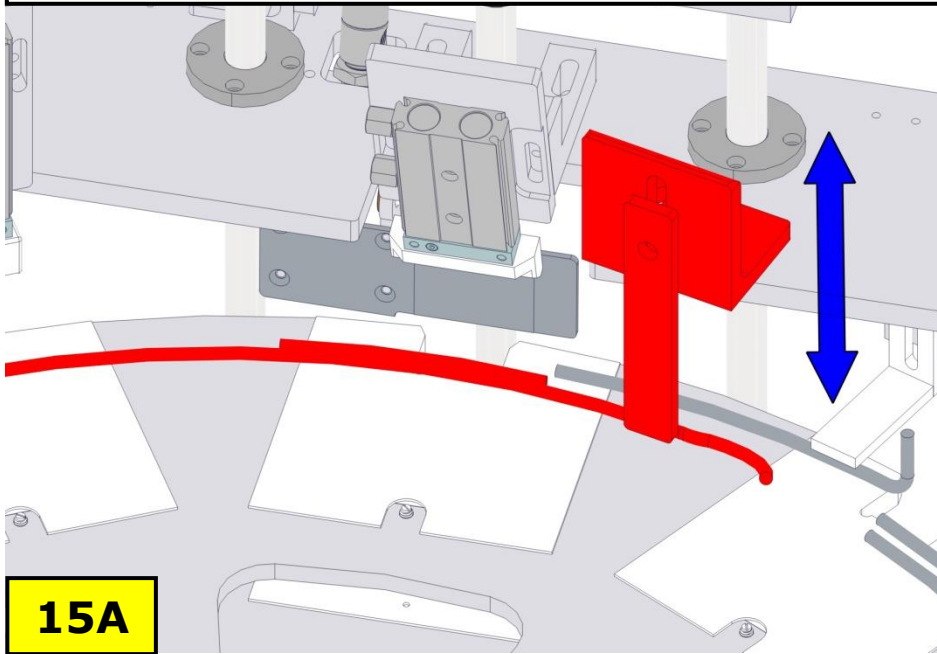
Loosen the locking handle. Using the handwheel move the **LID CLOSER** plate up or down according to the height "H" of the box. Tighten the locking handle.



15A. LID GUIDE #3



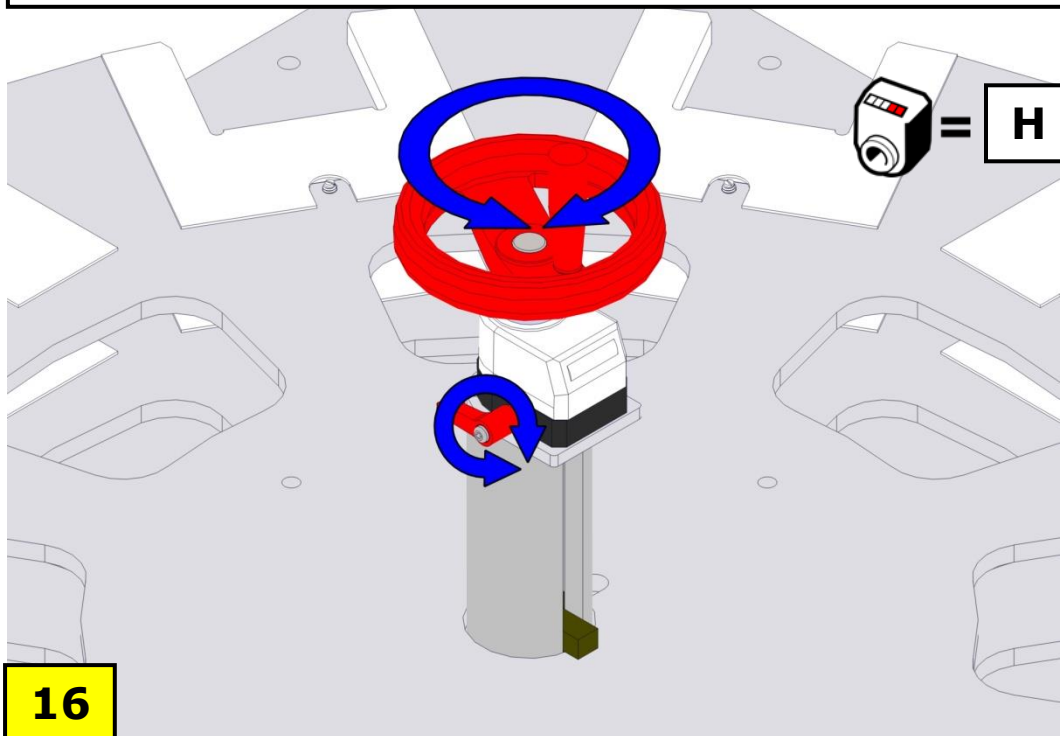
Loosen the nuts. Locate or remove the lid guide #3 according to the box to runs. Tighten the nuts.



16. ROTARY TABLE

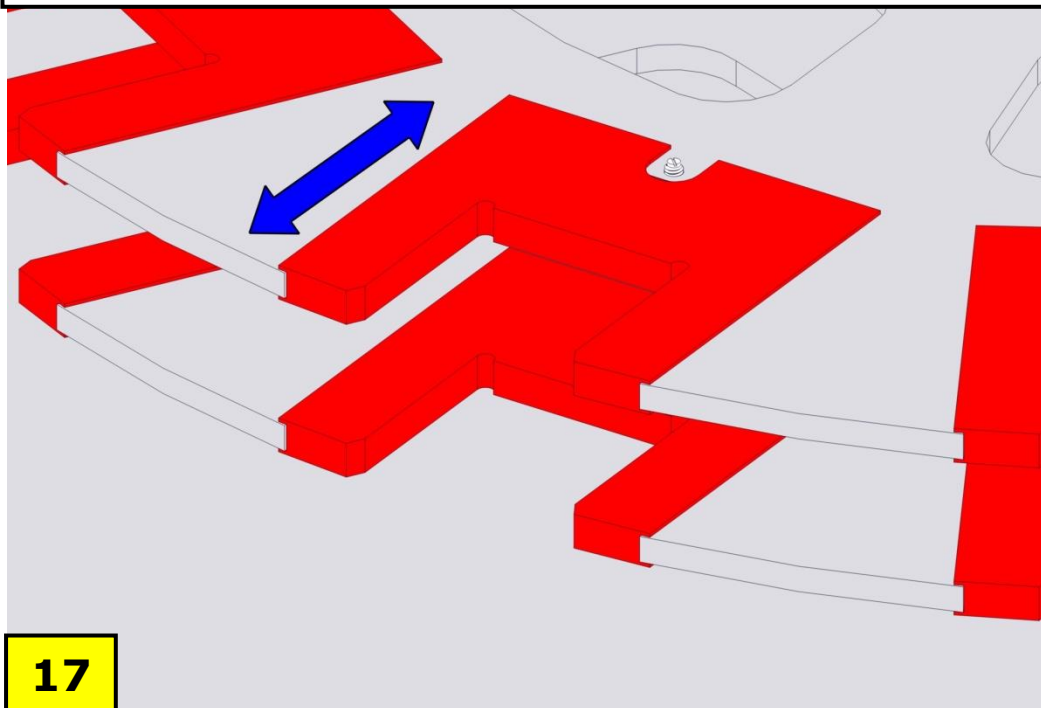


Loosen the locking handle. Rotate the handwheel to move the top table up or down according to the height "H" of the box. Tighten the handle.



17. FORMING PLATES

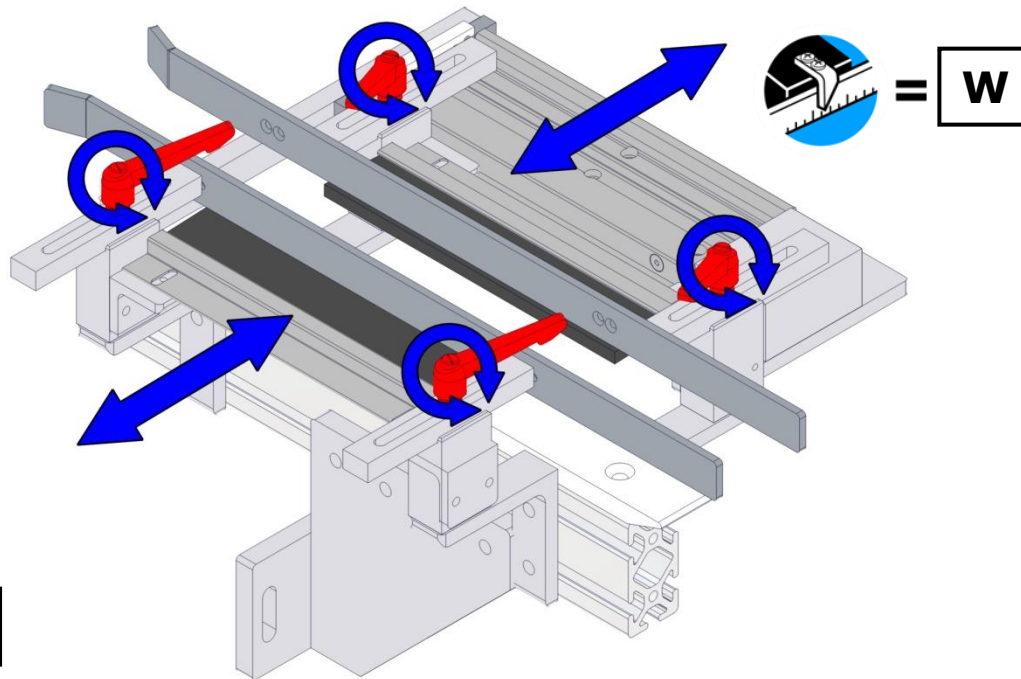
Slide out the box holder plates on the machine and slide in the new ones according to the box to run, pushing them until they lock in place.



18. DISCHARGE GUIDE



Loosen the locking handle. Move the guides in or out according to the LENGTH "L" of the box. Tighten the locking handle.



18

MACHINE SPECIFICATIONS

Machine type	CIRCULAR CARTONER
Model	CC-003
Serial Number	19548
VOLTAGE	240 VAC, 3 phase
AMPS	30 A
CONTROL VOLTAGE	24 VDC
AIR REQUIREMENT	18 SCFM @ 80psi
AIR CONNECTION TO MACHINE	3/4" pipe @ 100psi minimum

MAINTENANCE

WARNING

Be sure that power to the machine is turned off and isolated to ensure that no accidental start-up can occur.

AIR LINES

Check that the regulator on your machine is set to 80psi before operating your machine.

Check for water build up in filter canister and remove if required. Filter element may be cleaned with soap and water.

DAILY CHECK LIST

1. Check for loose nuts or bolt and retighten.
2. Check all airlines for cracks and leaks.
3. Check for loosen or broken electrical cables.
4. Check all doors are closed and secure to the machine. Be sure that all safety interlocks on the doors are functioning properly.
5. Clean all corrugated board pieces from the machine
6. Remove all excess glue from guide rails and folding bars.

WARNING

Leaving panels off the machine or overriding safety interlocks could cause injury to operator or bystanders near the machine.

WEEKLY CHECK LIST

1. Check motor and gear reducer of drive for overheating.
2. Check and clean exterior of glue unit of all particles of glue (refer to user's manual for additional maintenance instructions.)
3. Check vacuum cups for wear and remove any particles of cardboard that may impede air blow. Check and clean vacuum filter located on the end of the vacuum generator.
4. Lightly oil all drive chains.

MONTHLY MAINTENANCE

1. Lubricate all rotary bearings with lithium soap based grease, unless otherwise specified due to a specific application requirement.

GREASING INTERVAL:

<u>OPERATING TEMP</u>	<u>ENVIRONMENTAL CONDITIONS</u>		
	<u>CLEAN</u>	<u>DIRTY</u>	<u>VERY DIRTY/HUMID</u>
122 F OR LESS	3 YEARS	6 MONTHS	3 MONTHS
123-158 F	1 YEAR	2 MONTHS	1 MONTH

2. All ball bushing bearings require a small amount of grease or oil to operate. For general applications, EP2 (extreme pressure NLGI grade 2) lubricant is recommended to prevent wearing and rusting of bearing surfaces. When linear speeds are high, light oil should be used and the bearing should be prevented from running dry for a prolonged period of time. A medium to heavy oil or light grease has greater adhesion properties that afford longer bearing protection and minimize sealing problems.
3. Lubricate roller chain with lubricant. And also check chain tension; if chain sags or is loose retighten tension.

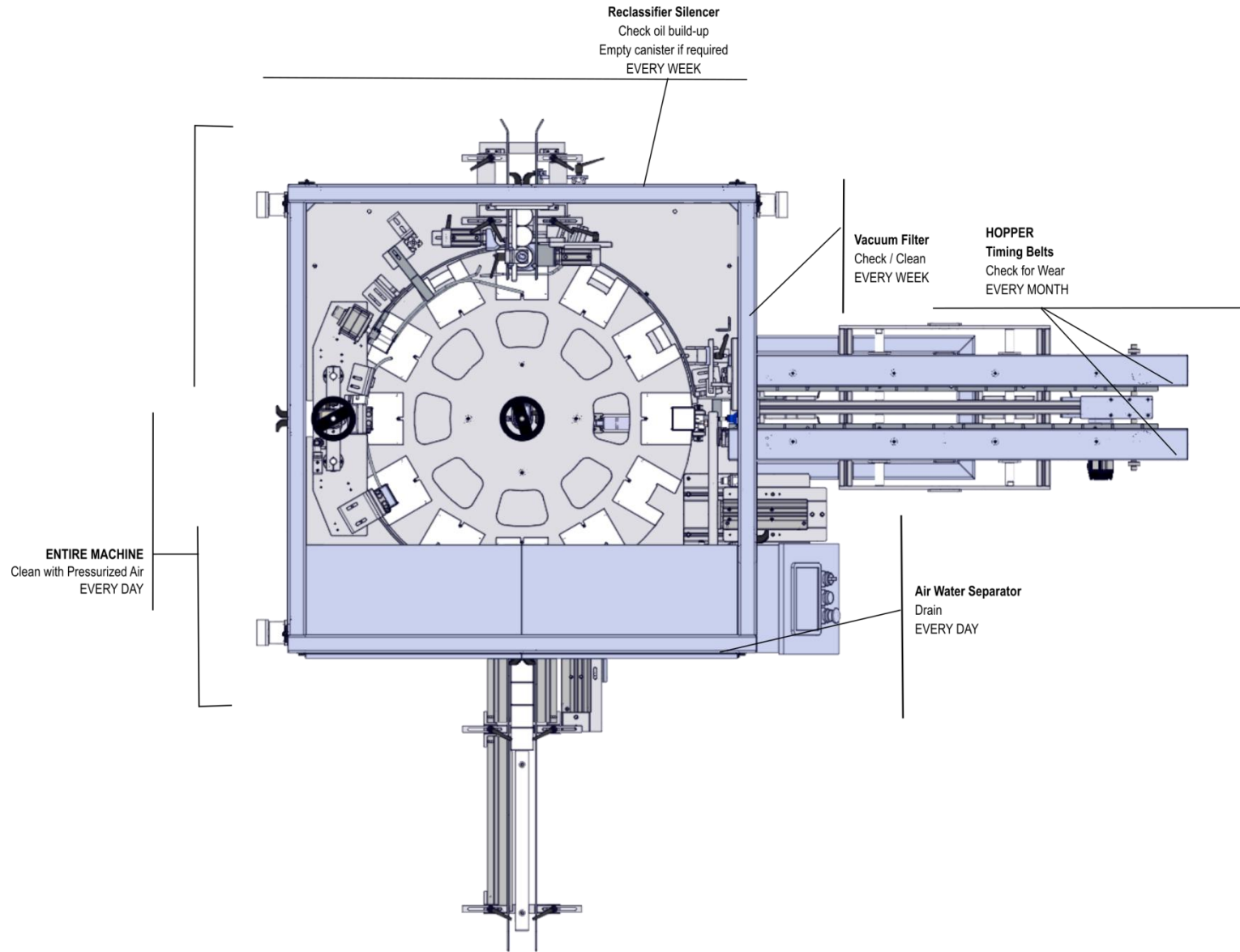
GEAR REDUCERS

Gear Reducers are pre-filled with lubricant unless specified at the time of purchase. The proper level is to the center of the oil level pug or 60% inside the housing. Each reducer is filled with Mobil SHC634 Synthetic Oil for 20°F to 225°F (Extreme Temperatures) operation. Oil in gear reducers should be changed every 3000 hours of service.



















TROUBLESHOOTING

PROBLEM	PROBABLE SOLUTION
Any cylinder not actuating	<ol style="list-style-type: none"><li data-bbox="586 369 1422 401">1. Check that the regulator on the machine is set to 80psi.<li data-bbox="586 422 1122 453">2. Look for worn or cracked air lines.<li data-bbox="586 474 1438 548">3. Look for any obstruction that may cause the cylinder not to move properly.<li data-bbox="586 569 1235 600">4. Check that the valve is operating properly.
General	<ol style="list-style-type: none"><li data-bbox="586 632 1466 747">1. Be sure that you have made the correct adjustment to the machine and that the tray blank moves through the machine properly.<li data-bbox="586 758 1146 789">2. Make sure that all handles are tight.<li data-bbox="586 810 1466 884">3. Listen for unusual sound from the machine and determine where the problem is coming from.<li data-bbox="586 905 1466 999">4. Use the assembly drawing and electrical schematic to determine and pinpoint the parts that you are having problems with.

MACHINE MAINTENANCE CHART



LIGHT STACK COLOR CODES

COLORS	DESCRIPTION
 Off  Off  Flashing	Machine starting or in auto idler mode.
 Off  Off  On	Machine running OK.
 Flashing  Flashing  Flashing	Batch done (You must press the RESET COUNT button on the BATCH screen to start the machine again).
 Off  On  On	Machine running in low hopper.
 Flashing  Flashing  Off	Reload hopper. Press reset button on screen to acknowledge the alarm.
 Flashing  Off  Off	Machine Fault. Read the machine status on the Touch Screen for more information.

SPARE PARTS

For general information and parts contact:

ENDFLEX LLC.

4760 NW 128th Street, Miami, FL 33014

Phone: 305-622-4070

FAX: 305-688-7772

parts@endflex.com

It is necessary that before you contact ENDFLEX for parts, that you know the **Machine Model and Serial Number**

(Wrap Around Packer model WP-001, S/N 19548)

1. Locate the assembly the part is being ordered for. At the end of this manual is a complete set of assembly drawings to assist you in finding these parts.
2. Once you have the assembly drawing, locate the item number of the part you want to order and write down the part number from the bill of materials.
3. When requesting for parts send us an email to parts@endflex.com and please provide:
 - Machine model and serial number
 - Assembly part number and description
 - Item number, part number and description

By following the procedures described above, you will assist us in supplying you with the correct parts for your machine and will eliminate any misunderstanding between your purchasing agent and our parts department.

The request for parts cannot be completed without the SERIAL NUMBER of the machine.

SERVICE

For general information and service contact:



www.paxiom.com/service/

It is necessary that before you contact PAXIOM for service, that you know the

Machine Model and Serial Number

(Wrap Around Packer model WP-001, **S/N 19548**)

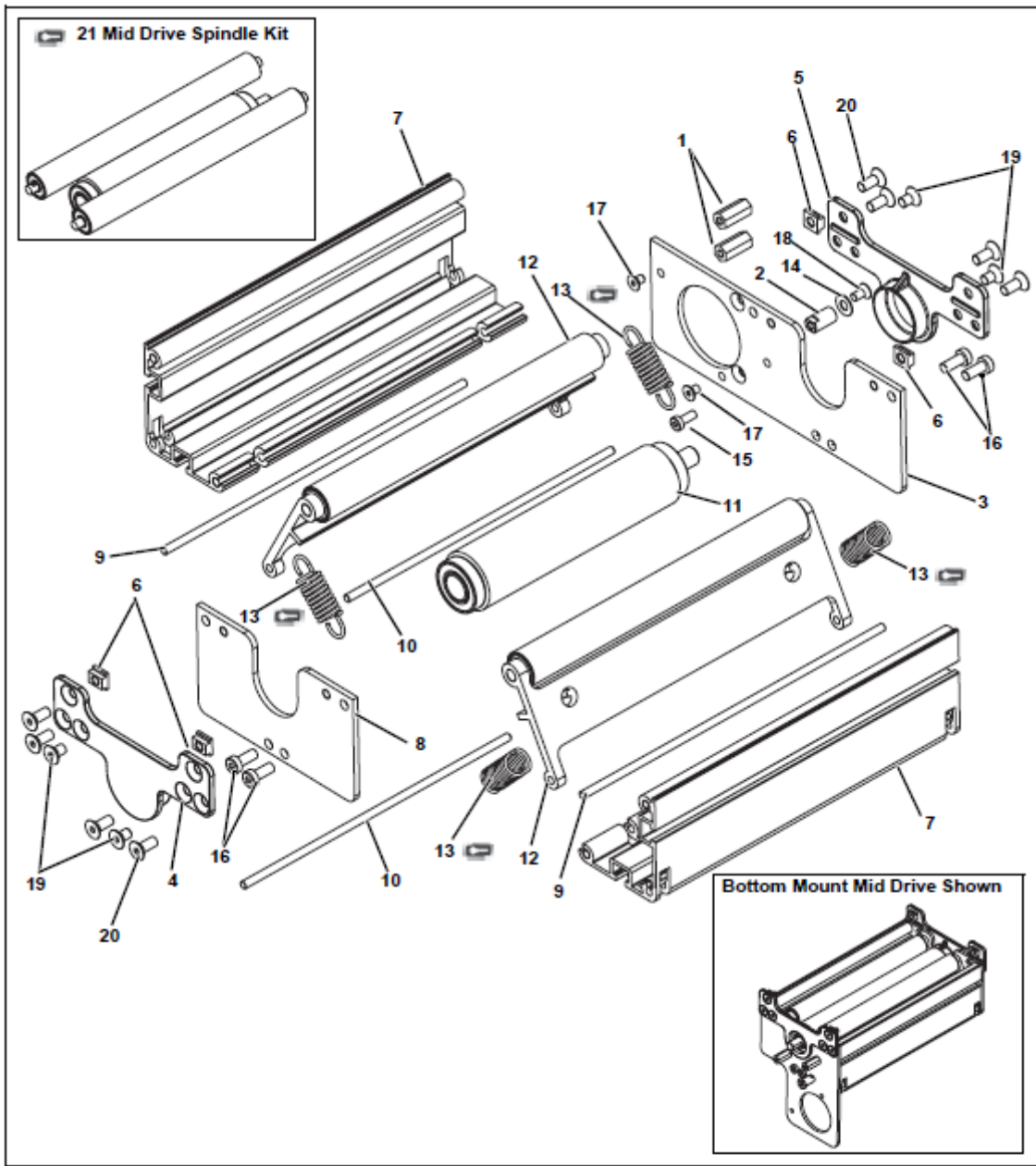
For scheduling phone support or onsite support:

1. Choose your brand **ENDFLEX**.
2. Provide the machine model. Case Sealer Glue.
3. Provide the **SERIAL NUMBER**. **S/N 19548**
4. Fill out your contact information.
5. Describe the issue as detailed as possible.
6. Keep at hand pictures or videos of the issue you wish to address.

By following the procedures described above, you will assist us in supplying you with the best service for your machine and will eliminate any misunderstanding between your maintenance personnel and our technicians.

INFEEED CONVEYOR

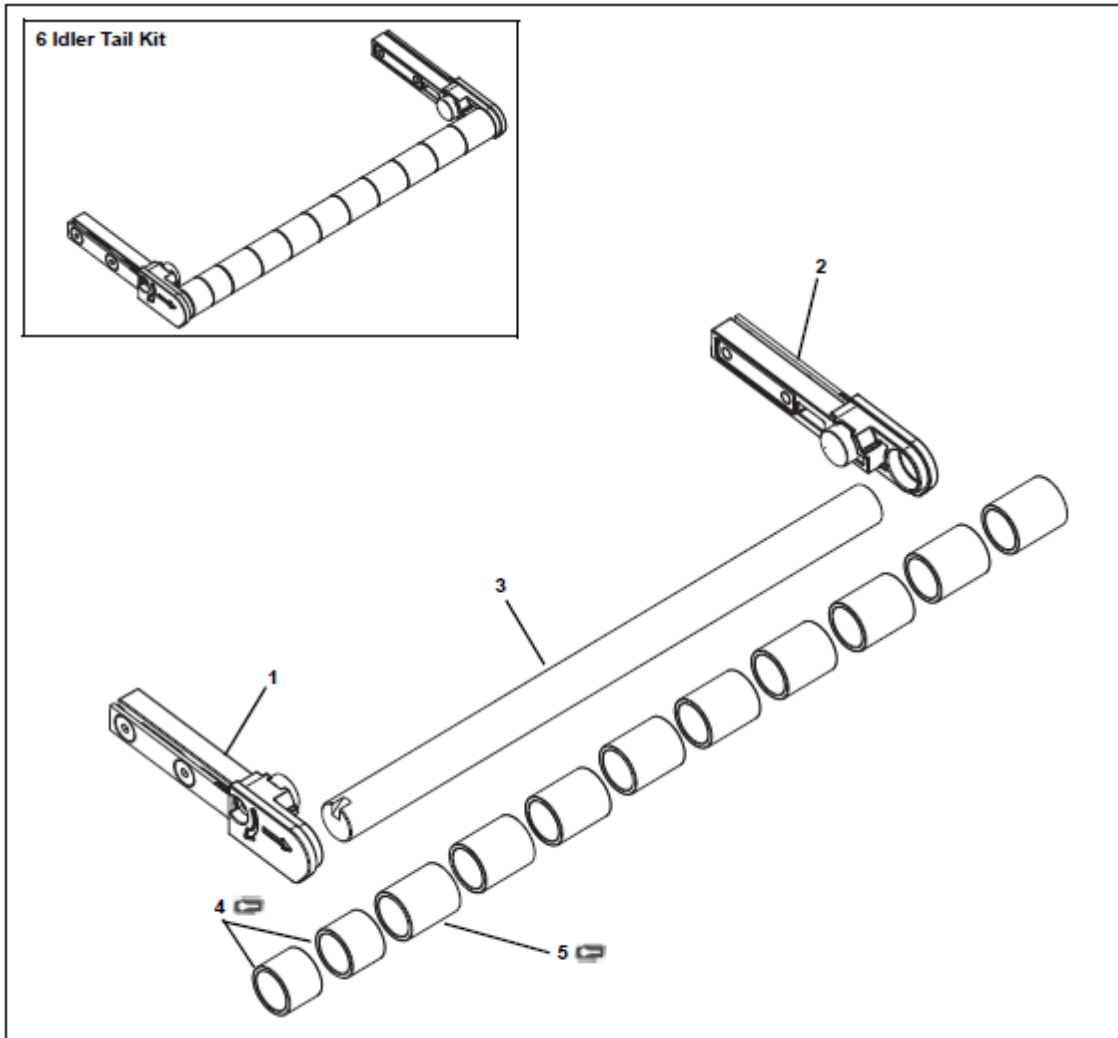
MID DRIVE END



1100 Series Mid Drive Conveyors

Item	Part Number	Description
1	210120	Hex Stand Off
2	210121	Gear Shaft
3	210126	Side Plate for Drive Side, Bottom Mount Mid Drive
	210127	Side Plate for Drive Side, Side Mount Mid Drive
	210125	Side Plate for Drive Side, Customer Driven Mid Drive
4	210130	Pinch Plate Non-Drive Side
5	210131	Pinch Plate Drive Side
6	210135	Single T-Bar
7	210069- <u>WW</u>	Pinch Drive Guard
8	210125	Side Plate for Non-Drive Side
9	210132- <u>WW</u>	Support Rod
10	210133- <u>WW</u>	Support Rod
11	204054- <u>WW</u>	Mid Drive Spindle Assembly
12	204056- <u>WW</u>	Mid Drive Pinch Roller Assembly
13	807-2207	Precision Spring
14	911-205	Washer
15	950410MSS	Low Head Cap Screw, M4-0.70 x 10 mm
16	950512MSS	Low Head Cap Screw, M5-0.80 x 12 mm
17	930406MSS	Flat Head Screw, M4-0.70 x 6 mm
18	930408MSS	Flat Head Screw, M4-0.70 x 8 mm
19	930508MSS	Flat Head Screw, M5-0.80 x 8 mm
20	930512MSS	Flat Head Screw, M5-0.80 x 12 mm
21	11MDS- <u>WW</u>	Mid Drive Spindle Kit (Includes items 11 & 12)
<u>WW</u> = Conveyor width reference: 02, 04, 06, 08, & 10		

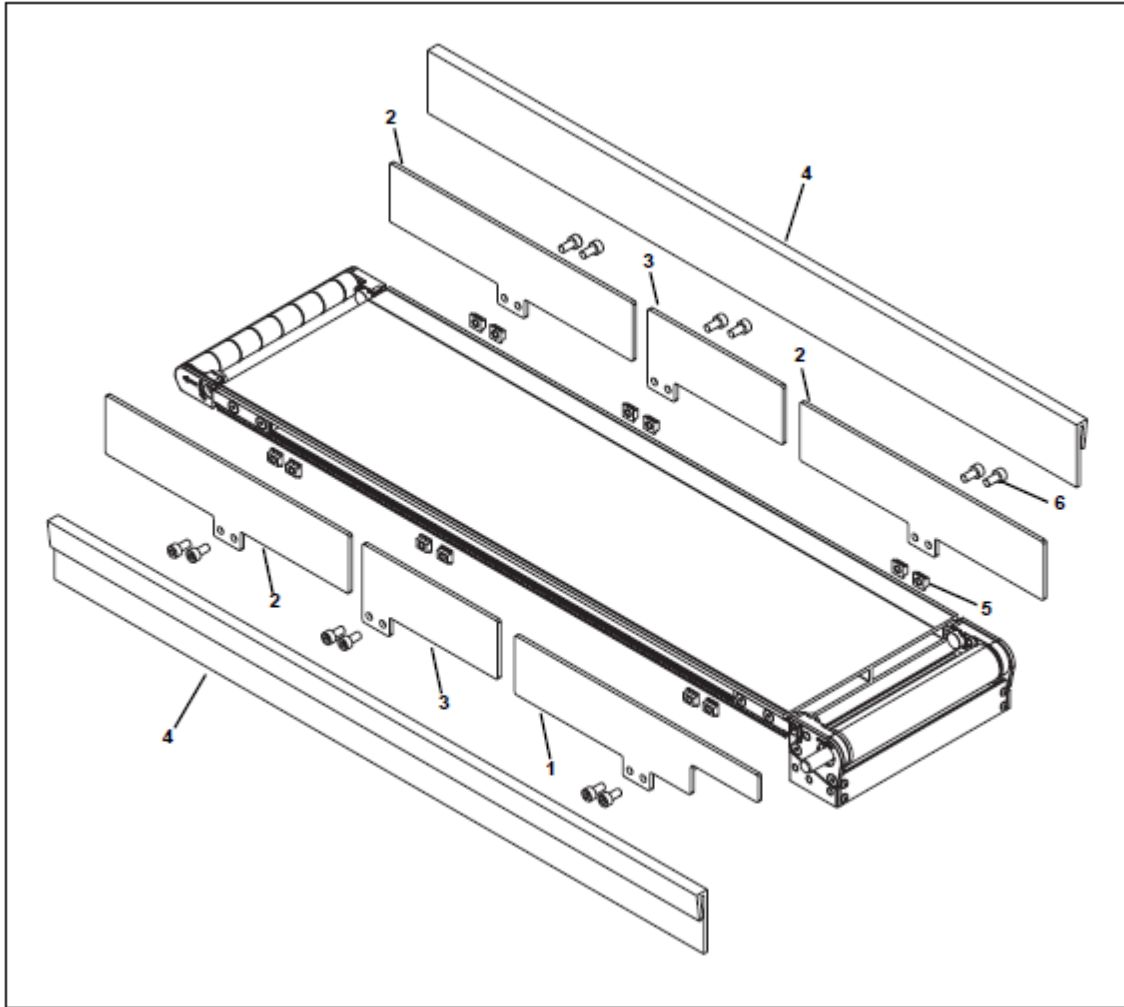
IDLER END



Item	Part Number	Description
1	210094	Right Hand Tail Plate Assembly
2	210093	Left Hand Tail Plate Assembly
3	210091- <u>WW</u>	Shaft
4	801-148	Bearing, 0.625 dia. x 0.50 long (for quantities see Bearing Chart)
5	801-149	Bearing, 0.625 dia. x 0.75 long (for quantities see Bearing Chart)
6	210092- <u>WW</u>	Idler Tail Kit (Includes items 1 through 5)
<u>WW</u> = Conveyor width reference: 02, 04, 06, 08 & 10		

Bearing Quantity Chart		
<u>WW</u>	Item #4 (801-148)	Item #5 (801-149)
02	0	2
04	1	4
06	1	7
08	2	9
10	0	13

2" PROFILE



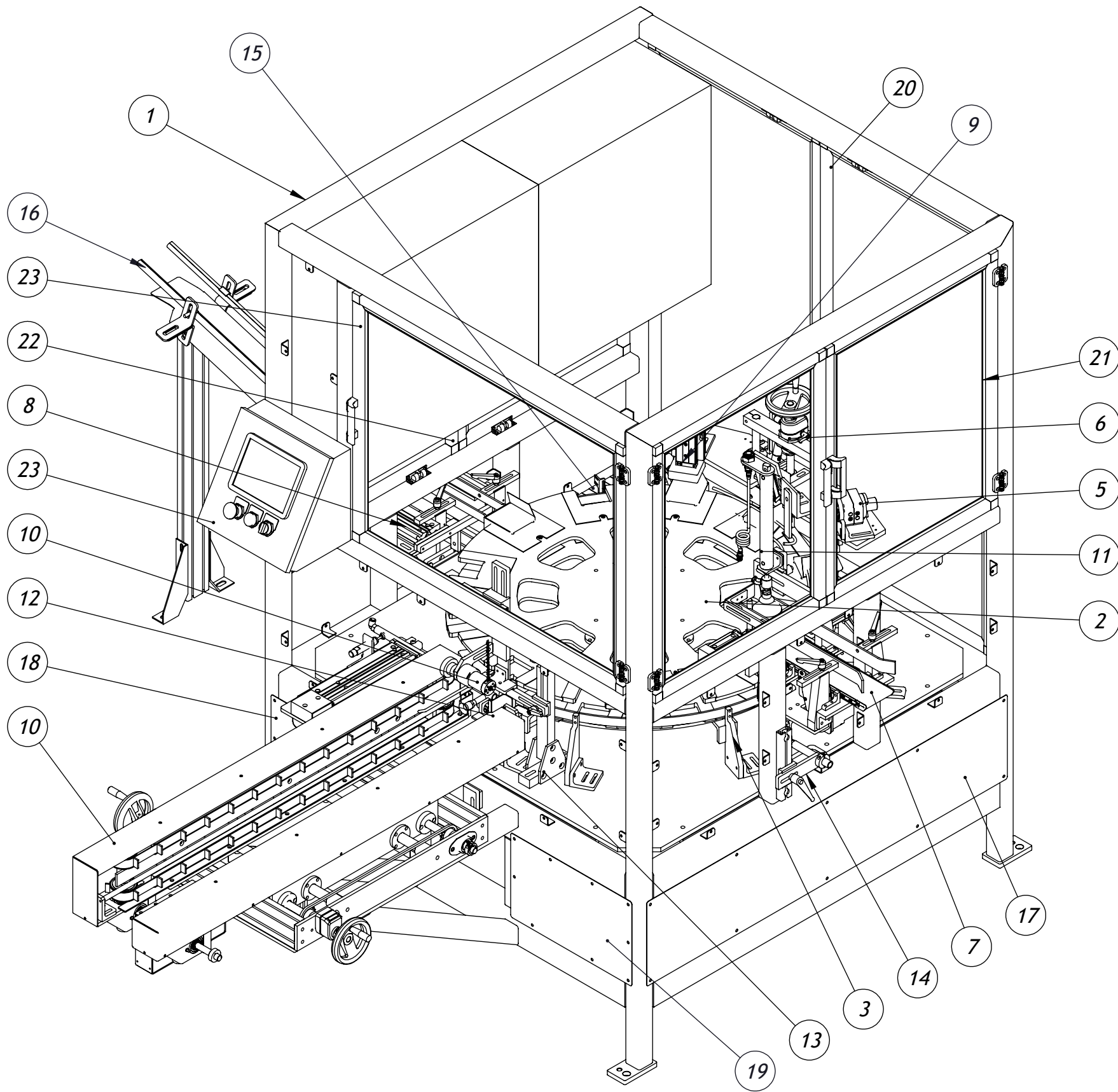
Item	Part Number	Description
1	204045	Guiding Support Bracket 2" x 2.50" Drive End Only for Conveyors under 14" long
	204043	Guiding Support Bracket 2" x 6.50" Drive End Only for Conveyors 14" long and longer
2	210158	Guiding Support Bracket 2" x 9"
3	210160	Guiding Support Bracket 2" x 5"
4	210162- <u>LLLLL</u>	2" UHMW Guiding
5	210135	Single T-Bar
6	950512MSS	Low Head Cap Screw, M5 - 0.80 x 12 mm
<u>LLLLL</u> = Part length in inches with 2 decimal places.		
Example: Part Length = 35.25" <u>LLLLL</u> = 03525		

SUGGESTED SPARE PARTS

QTY	ITEM NUMBER	DESCRIPTION
4	U-LHFR0.75	LINEAR BEARING
1	960H100-15MMX1"X4" CLEATED	BETL H TYPE, 1" WIDE X 96" LONG
1	6203-2Z	BALL BEARING
1	7203	BALL BEARING, ANGULAR CONTACT
1	VC-59LA 1/8NPT	VACUUM CUP DIA 1.5, CLEATED 1/8 NPT
1	MA 225-BP	SHOCK ABSORBER
1	CYL 3/4X1	ROUND BODY AIR CYLINDER
1	173L075	TIMING BELT
1	UDR-20-8-BM	AIR CYLINDER
1	UDR-20-3-BM	AIR CYLINDER, 1-1/4" X 3" W/ BUMPERS
1	BB0.62X1.375.344 SEALED-RATED	BALL BEARING
1	WHEEL BRUSH-2"	LOW-SCRATCH WHEEL BRUSH
1	SY7000-5W-2POS	5 WAY, 2 POSITION VALVE
1	VQ4101-5B REP2P4W24VDC	5 WAY, 2 POSITION VALVE
1	VQ4501-5 3 POS	5 WAY, 3 POSITION VALVE, CENTER CLOSED
1	SAV-GLU-24DC	3 WAY, 2 POSITION VALVE
1	E-2	VACUUM FILTER
1	AA RELAY SAFE 4NO 1NC	SAFETY RELAY, PLUG-IN, 4PST-NO, DPST-NC, 6 A, FORCIBLY-GUIDED CONTACTS
1	PHQ12AB6FF30Q5	PHOTOCELL
1	PHQS18VP6LAFQ5	PHOTOCELL
1	PHQS18VP6LLPQ5	PHOTOCELL
1	PHQS18AB6AF300Q5 preferred	PHOTOCELL
1	PHQ4XTBLAF300-Q8	PHOTOCELL
1	REED SWITCH	REED SWITCH, 3 m WIRE, PNP, 24 VDC, N.O.
1	AD IND PROX PNP NONC	INDUC PROX 18mm PNP 10mm RNG N.O./N.C. M12 Q/D FLUSH
1	SIE BLK NC	NORMALLY CLOSED CONTACT BLOCK
1	SIE BLK NO	NORMALLY OPEN CONTACT BLOCK
1	SIE E-STOP	MAINTAINED PUSH BUTTON ILLUMINATED
1	AD SSIDIS1NO1NC	SAFETY SWITCH
1	CC-003-14-04	NOZZLE

ASSEMBLY DRAWINGS

ASSEMBLY NUMBER	DESCRIPTION
CC-003	MAIN ASSY
CC-003-02	ROTARY TABLE ASSEMBLY
CC-003-03	OUTSIDE GUIDE ASSEMBLY
CC-003-04	PULLOUT ASSEMBLY
CC-003-05	MINOR KICKER ASSEMBLY
CC-003-06	LID CLOSER ASSEMBLY
CC-003-07	PRODUCT INSERTER ASSEMBLY
CC-003-08	EXTRACTOR ASSEMBLY
CC-003-09	LIP TUCKER
CC-003-10	BLANK HOPPER ASSEMBLY
CC-003-11	PRODUCT PUSHER ASSEMBLY
CC-003-12	BOX HOLDER ASSEMBLY
CC-003-13	OPENER ASSEMBLY
CC-003-14	FLAP OPENER
CC-003-15	PNEUMATIC SCHEMATIC
CC-003-16	DISCHARGE RAMP
CC-003-99	ELECTRICAL SCHEMATIC



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-01-02	FRAME WELDMENT
2	1	CC-003-02	ROTARY TABLE
3	1	CC-003-03	OUTSIDE GUIDE
4	1	CC-003-04	PULLOUT ASSEMBLY
5	1	CC-003-05	MINOR KICKER
6	1	CC-003-06	LID CLOSER
7	1	CC-003-07	PRODUCT INSERTER ASSY
8	1	CC-003-08	EXTRACTOR
9	1	CC-003-09	LIP TUCKER
10	1	CC-003-10	BLANK HOPPER
11	1	CC-003-11	PRODUCT PUSHER
12	1	CC-003-12	BOX HOLDER
13	1	CC-003-13	OPENER ASSY
14	1	CC-003-14	FLAP OPENER
15	1	CC-003-15	PNEUMATIC SCHEMATIC
16	1	CC-003-16	DISCHARGE RAMP
17	3	CC-003-00-01	SIDE COVER
18	1	CC-003-00-02	END COVER
19	1	CC-003-00-05	END COVER-2
20	2	D-01	DOOR
21	2	D-02	DOOR
22	2	D-03	DOOR
23	1	D-04	DOOR

PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

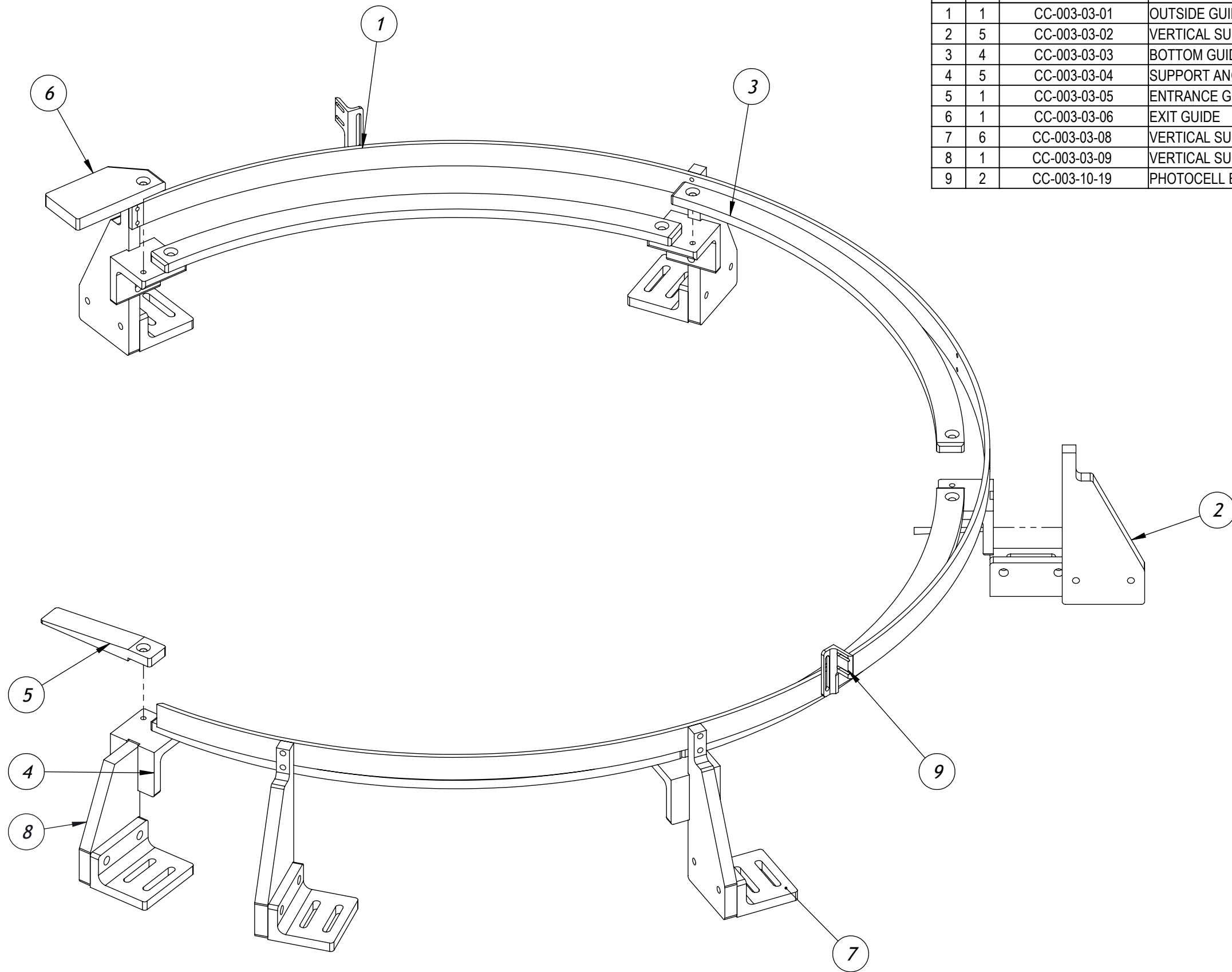
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



4760 NW 128th STREET. MIAMI, FLORIDA 33054

PART NAME VERTICAL CARTONER				
MACHINE MODEL VERTICAL CARTONER				
DWG NO. CC-003				REV -
DESIGN	DRAWN	DATE	SCALE	SHEET
	vguzzo	1/13/2020	1:32	1 OF 1

M:101 ORDERS IN PROGRESS/19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)1-Mechanical/1-Assembly/



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-03-01	OUTSIDE GUIDE
2	5	CC-003-03-02	VERTICAL SUPPORT
3	4	CC-003-03-03	BOTTOM GUIDE
4	5	CC-003-03-04	SUPPORT ANGLE
5	1	CC-003-03-05	ENTRANCE GUIDE
6	1	CC-003-03-06	EXIT GUIDE
7	6	CC-003-03-08	VERTICAL SUPPORTANGLE
8	1	CC-003-03-09	VERTICAL SUPPORT PULLOUT
9	2	CC-003-10-19	PHOTOCELL BRACKET

PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

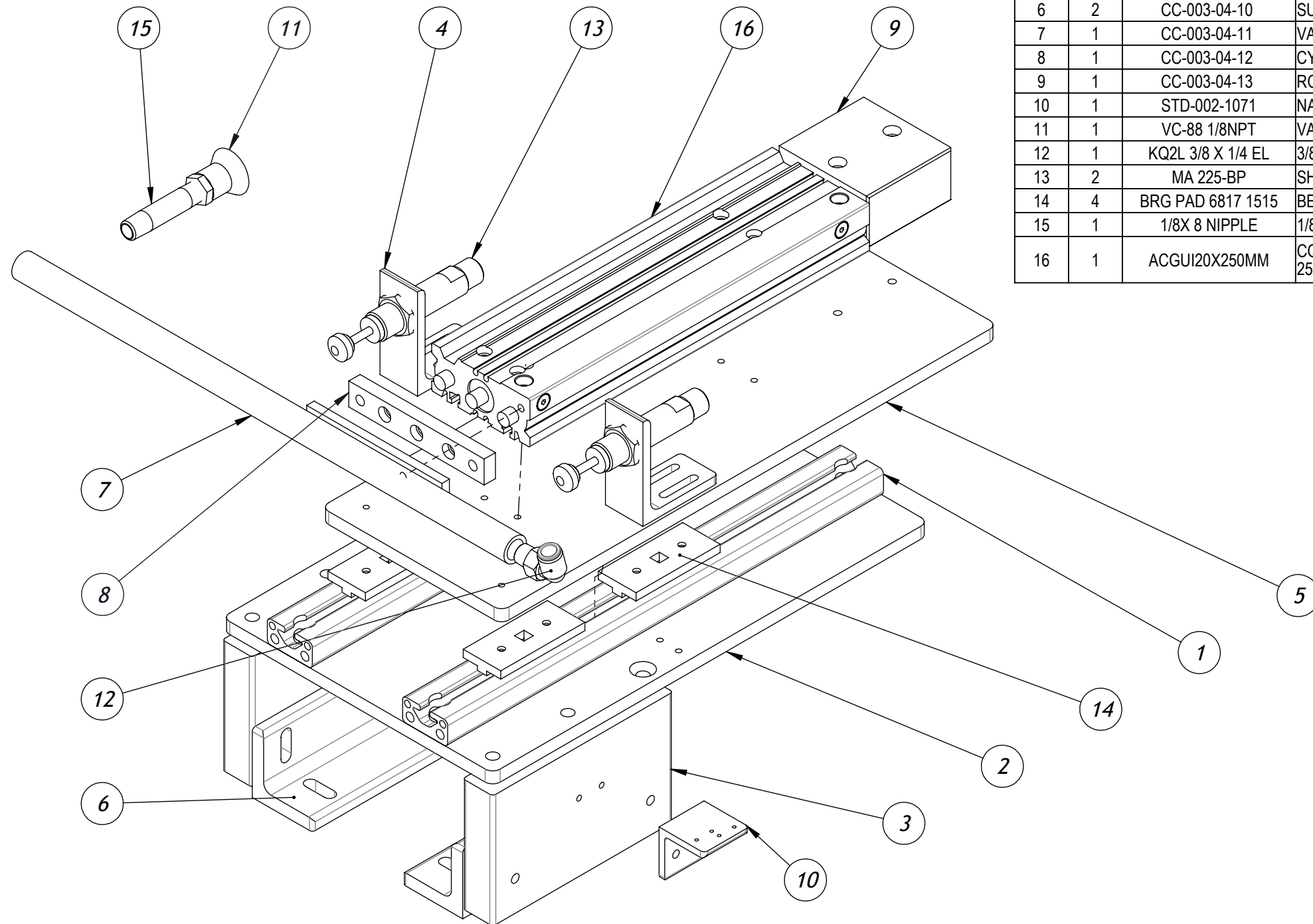
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		OUTSIDE GUIDE		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.		CC-003-03		REV -
DESIGN	DRAWN	DATE	SCALE	SHEET
	JFdez	8/30/2019	1:4	1 OF 1

ASSEMBLY BILL OF MATERIALS

ITEM	QTY.	PARTNO	Description
1	2	CC-003-04-04	SLIDE
2	1	CC-003-04-05	BASE
3	2	CC-003-04-06	BLOCK
4	2	CC-003-04-07	SHOCK ABSORBER SUP
5	1	CC-003-04-09	CYLINDER BASE
6	2	CC-003-04-10	SUPPORT BLOCK
7	1	CC-003-04-11	VACUUM TUBE ARM
8	1	CC-003-04-12	CYLINDER FRONT MOUNTING
9	1	CC-003-04-13	ROD COVER EXTENDED
10	1	STD-002-1071	NAS .250 X .250 INFLCTROL
11	1	VC-88 1/8NPT	VACUUM CUP DIA 1.21, CLEATED 1/8 NPT
12	1	KQ2L 3/8 X 1/4 EL	3/8T X 1/4 NPT MALE ELBOW
13	2	MA 225-BP	SHOCK ABSORBER
14	4	BRG PAD 6817 1515	BEARING PAD 15 SERIES
15	1	1/8X 8 NIPPLE	1/8 X 2 1/2 GALVANIZED NIPPLE
16	1	ACGUI20X250MM	COMPACT GUIDED CYLINDER - 20 MM BORE x 250 MM STROKE



M:101 ORDERS IN PROGRESS\19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)\1-Mechanical\17-Assembly\

PROJECT **19548**

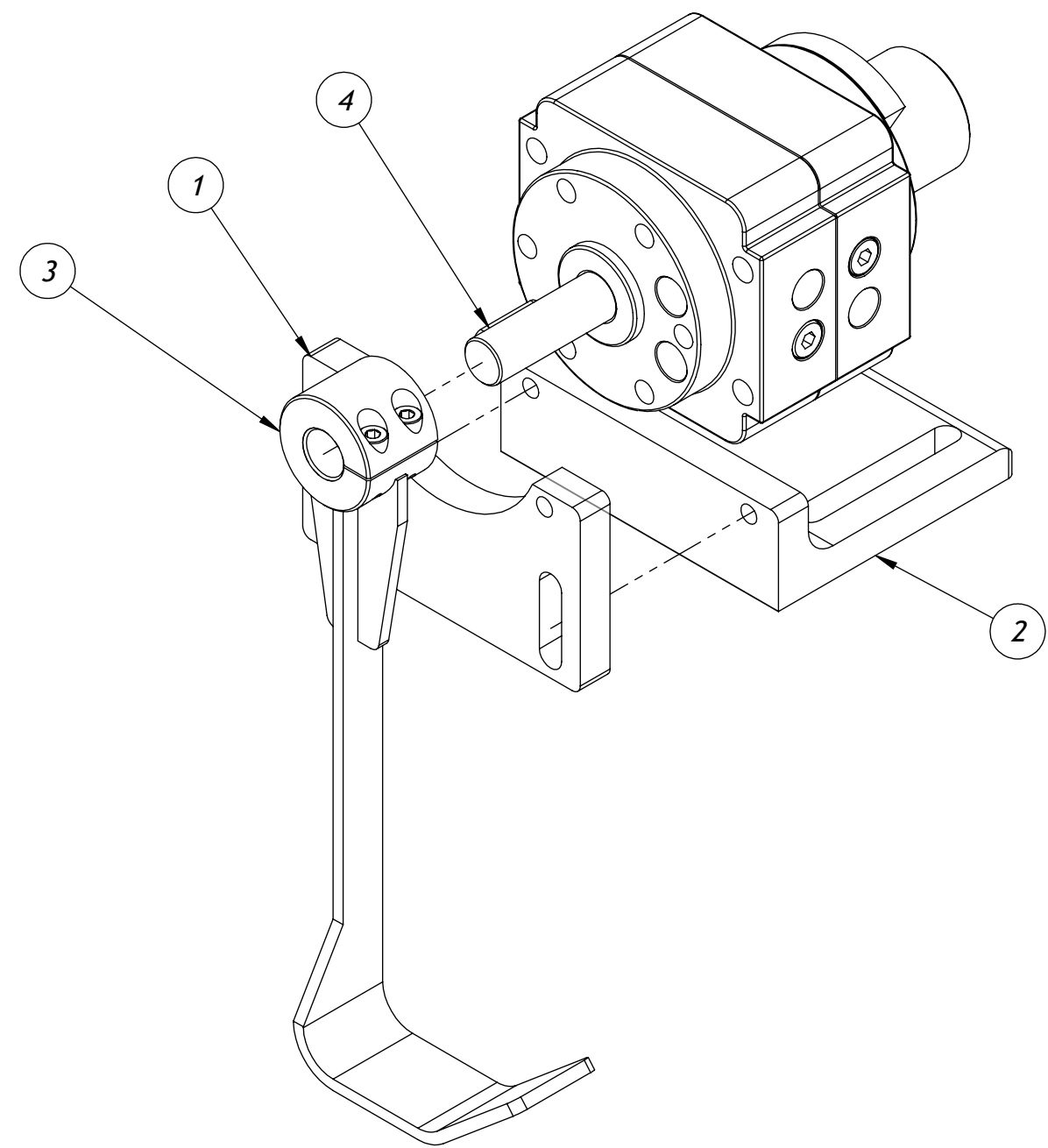
PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



PART NAME		PULLOUT ASSEMBLY		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.	CC-003-04	REV	-	
DESIGN	DRAWN	DATE	SCALE	SHEET
	JFdez	8/29/2019	1:3	1 OF 1

ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-05-02	CYLINDER BASE
2	1	CC-003-05-03	SUPPORT ANGLE
3	1	CC-003-05-06	WIDE KICKER EXTENDED
4	1	ROTAC-VT1-90D-S50	ROTARY ACTUATOR



M:01 ORDERS IN PROGRESS\19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)\1-Mechanical\1-Assembly\

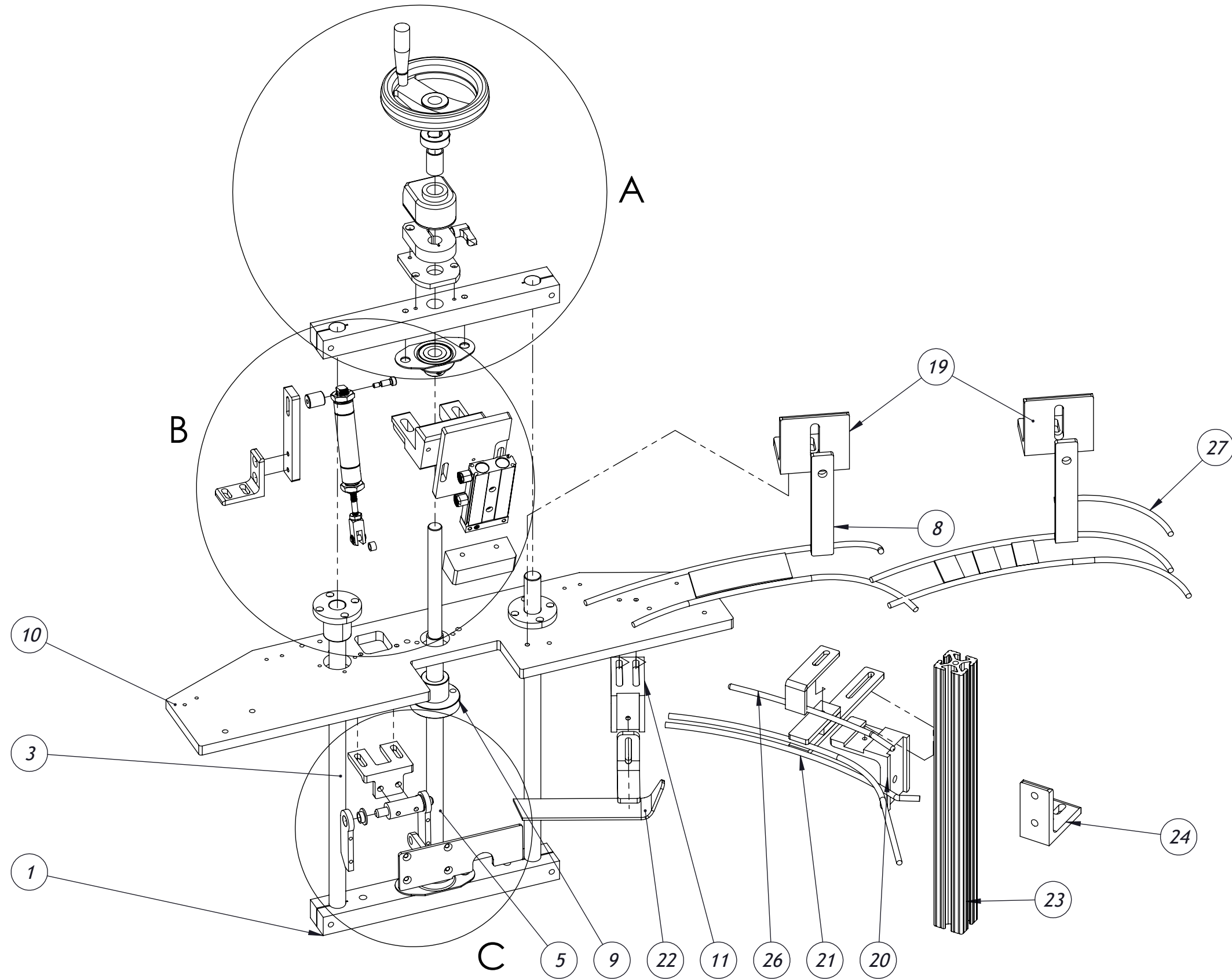
PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		MINOR KICKER	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.	CC-003-05	REV	-
DESIGN	DRAWN JFdez	DATE 8/28/2019	SHEET 1 OF 1



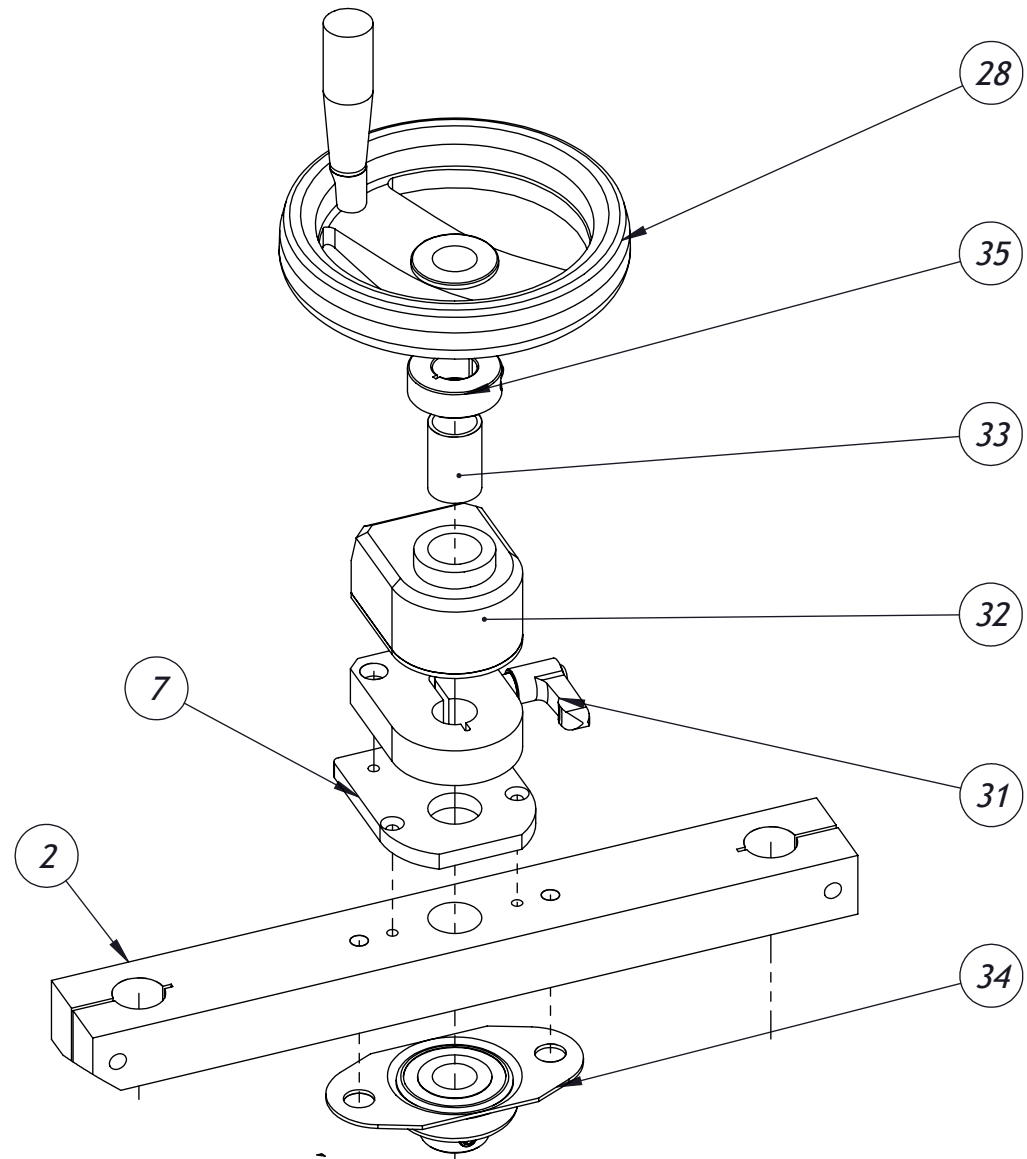
PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

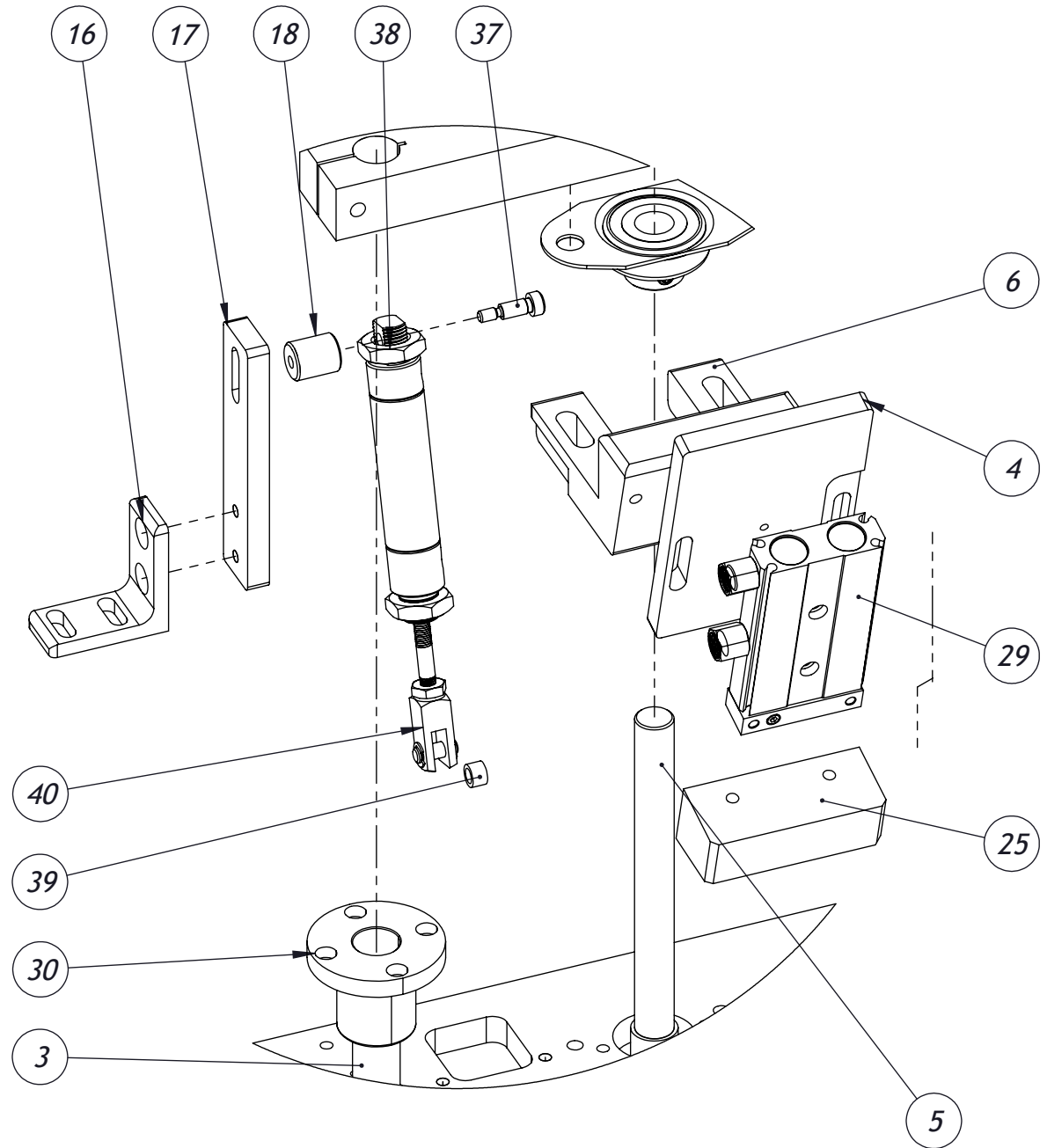
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		LID CLOSER		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.		CC-003-06		REV -
DESIGN	DRAWN	DATE	SCALE	SHEET
	vguzzo	1/14/2020	1:5	1 OF 3



DETAIL A



DETAIL B

PROJECT **19548**

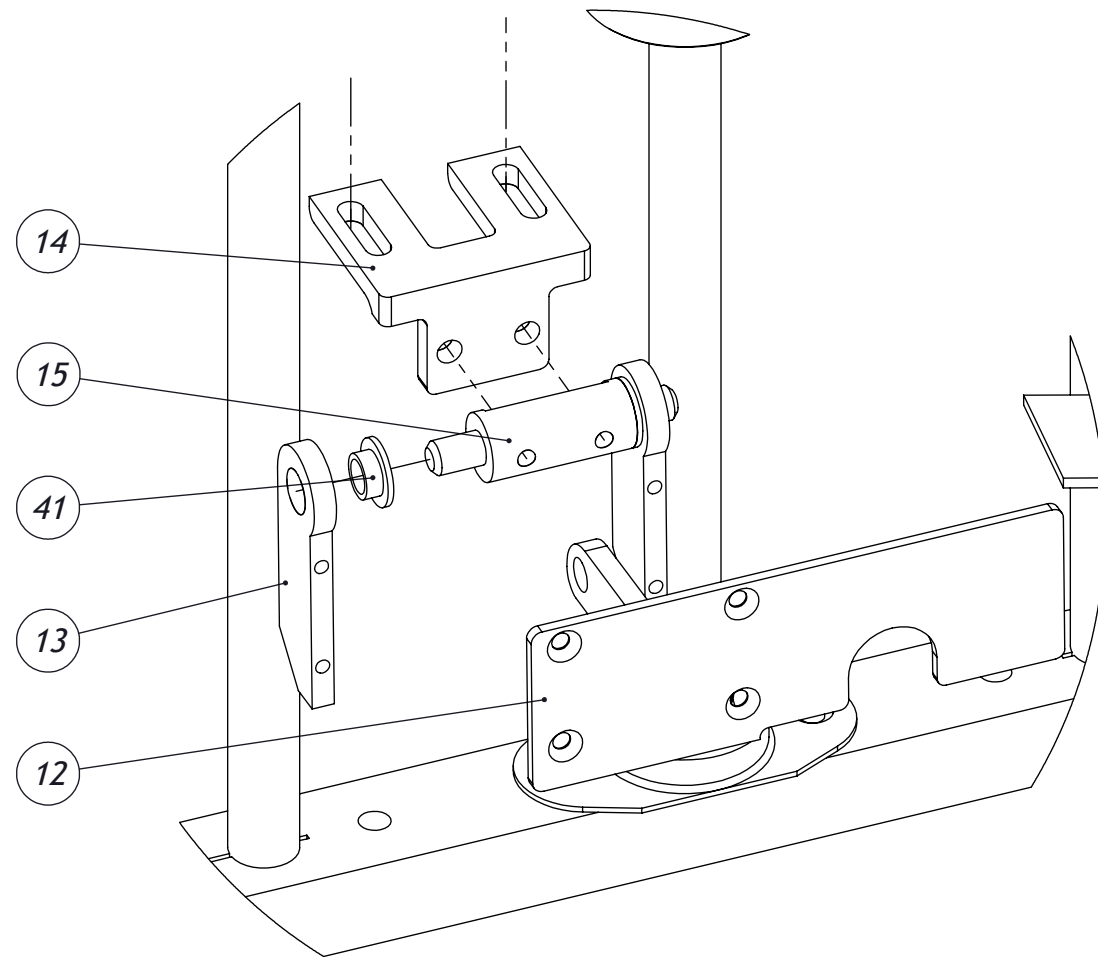
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		LID CLOSER		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.		CC-003-06		REV -
DESIGN	DRAWN	DATE	SCALE	SHEET
	vguzzo	1/14/2020	3:8	2 OF 3

M:101 ORDERS IN PROGRESS/19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)1-Mechanical/1-Assembly/



DETAIL C

ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-06-03	SUPPORT BLOCK
2	1	CC-003-06-04	TOP BLOCK
3	2	CC-003-06-06	LINEAR SHAFT
4	1	CC-003-06-07	CYLINDER BASE
5	1	CC-003-06-08	ADJUSTING SCREW
6	1	CC-003-06-09	CYLINDER SUPPORT
7	1	CC-003-06-10	DIAL BASE
8	1	CC-003-06-13	LID PLOW BAR
9	1	CC-003-06-15	ADJUSTING NUT
10	1	CC-003-06-21	CARRIAGE
11	1	CC-003-06-24	LIP SUPPORT ANGLE
12	1	CC-003-06-30	CENTER FOLDER
13	2	CC-003-06-31	CRANK
14	1	CC-003-06-32	SHAFT ANGLE
15	1	CC-003-06-33	SHAFT
16	1	CC-003-06-34	CYLINDER PLATE ANGLE
17	1	CC-003-06-35	CYLINDER PLATE
18	1	CC-003-06-36	SHAFT SUPP
19	2	CC-003-06-37	PLOW BAR SUPPORT
20	1	CC-003-06-38	LIP BREAK ANGLE
21	1	CC-003-06-39	LIP BREAK.SLDPRT
22	1	CC-003-06-48	FRONT MINOT FOLDER
23	1	CC-003-06-41	SHORT BEAM
24	1	CC-003-06-42	BEAM SUPP
25	1	CC-003-06-43	LIP PUSHER
26	1	CC-003-06-44	LID REAR HOLDER
27	1	CC-003-06-53	LID PLOW BAR 2
28	1	STD-002-1095	HAND WHEEL, Ø5" W/ HANDLE
29	1	ACTWN15-30	COMPAC TWIN ROD ;CYLINDER 15MM BORE X 30MM STROKE
30	2	U-LHFR0.75	LINEAR BEARING
31	1	BSA52-16	LOCKING BASE FOR DD52R
32	1	DIAL IND #DWN 1 CW	DIAL INDICATOR
33	1	RB52 3/4-5/8	BUSHING
34	2	BRF2-062 LIGHT	5/8" 2-BOLT FLANGE BEARING LIGHT
35	1	COL 0.625-1P	5/8 1-PC CLAMP-ON STL COLLAR
36	2	1/8 NPT (F)-M5X0.8 MM (M) ADAP	REDUCING ADAPTER
37	1	1/4X1/2SHOULDER	SHOULDER BOLT
38	1	CYL 3/4X1	CYLINDER
39	1	025-038-025SLBU	BUSHING
40	1	ROD CLEVIS 3/4	ROD CLEVIS
41	2	038-050-050FLBU	BRONZE BEARING

PROJECT **19548**

PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

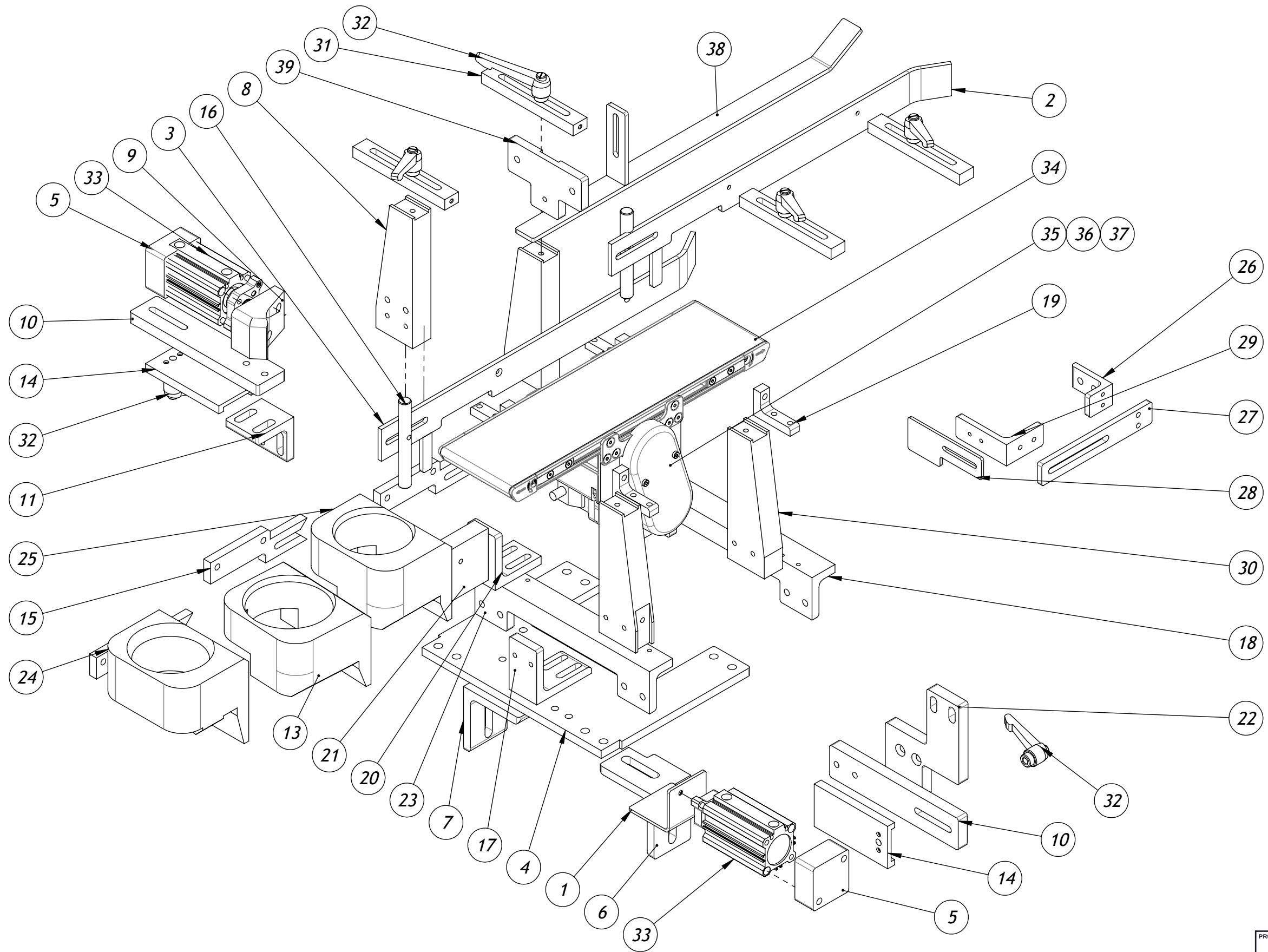
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



4760 NW 128th STREET. MIAMI, FLORIDA 33054

PART NAME		LID CLOSER	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.	CC-003-06	REV	-
DESIGN	DRAWN	DATE	SCALE
	JFdez	1/14/2020	1:2
		SHEET	3 OF 3

M:01 ORDERS IN PROGRESS/19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)1-Mechanical1-Assembly



PROJECT **19548**

PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



4760 NW 128th STREET. MIAMI, FLORIDA 33054

PART NAME		PRODUCT INSERTER ASSY	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.	CC-003-07	REV	-
DESIGN		DRAWN	JFdez
		DATE	1/15/2020
		SHEET	1 OF 2

M:01 ORDERS IN PROGRESS | 19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC) | 1-Mechanical | 1-Assembly

ITEM	QTY.	PARTNO	Description
1	1	CC-003-07-01	BOTTOM HOLDER
2	1	CC-003-07-02-1	SIDE GUIDE
3	1	CC-003-07-02-1	SIDE GUIDE
4	1	CC-003-07-05	SUPPORT PLATE
5	2	CC-003-07-06	CYLINDER BASE
6	1	CC-003-07-07-1	SUPPORT ANGLE
7	1	CC-003-07-07-2	SUPPORT ANGLE
8	1	CC-003-07-08	RIGHT COLUMN
9	1	CC-003-07-09	PRE-STOP
10	2	CC-003-07-10	ADJUSTING PLATE
11	1	CC-003-07-12	SUPPORT ANGLE
12	1	CC-003-07-14	LEFT COLUMN
13	1	CC-003-07-16	CHUTE LARGE
14	2	CC-003-07-21	SLIDING PLATE
15	3	CC-003-07-22	CHUTE SUPPORT PLATE
16	2	CC-003-07-26	END STOP
17	1	CC-003-07-30	VERTICAL BRACKET ANGLE
18	1	CC-003-07-31	LONG ANGLE
19	4	CC-003-07-32	CONVEYOR ANGLE
20	1	CC-003-07-33	CHUTE BLOCK ANGLE
21	1	CC-003-07-34	CHUTE BLOCK
22	1	CC-003-07-36	VERTICAL BRACKET
23	1	CC-003-07-37	LONG ANGLE-2
24	1	CC-003-07-38	CHUTE SMALL
25	1	CC-003-07-39	CHUTE MEDIUM
26	1	CC-003-07-47	PHOTOCELL ANGLE
27	1	CC-003-07-48	PHOTOCELL EXTENDED PLATE
28	1	CC-003-07-49	PHOTOCELL SUPPORT PLATE
29	1	CC-003-07-50	PHOTOCELL ANGLE SUPPORT
30	2	CC-003-10-03	COLUMN
31	4	CC-003-10-10	REAR BEAM SUPPORT
32	7	ZCL-2011	LOCK HANDLE 1/4-20
33	2	ACGUI32X50MM	COMPACT GUIDED CYLINDER - 20 MM BORE x 50 MM STROKE
34	1	CONV-1100-3.75X1'-2.04"-TRF	CONVEYOR 3.75"W X 1'2"
35	1	CONV-GEARM-30W 10-1	CONVEYOR MOTOR KIT
36	1	CONV-1100-CTRLBOARD	CONVEYOR CONTROL BOARD
37	1	CONV-1100-MID DRV	CONVEYOR DRIVE KIT
38	1	CC-003-07-52	PRODUCT TOP GUIDE
39	1	CC-003-07-51	PRODUCT TOP GUIDE SUPPORT

PROJECT **19548**

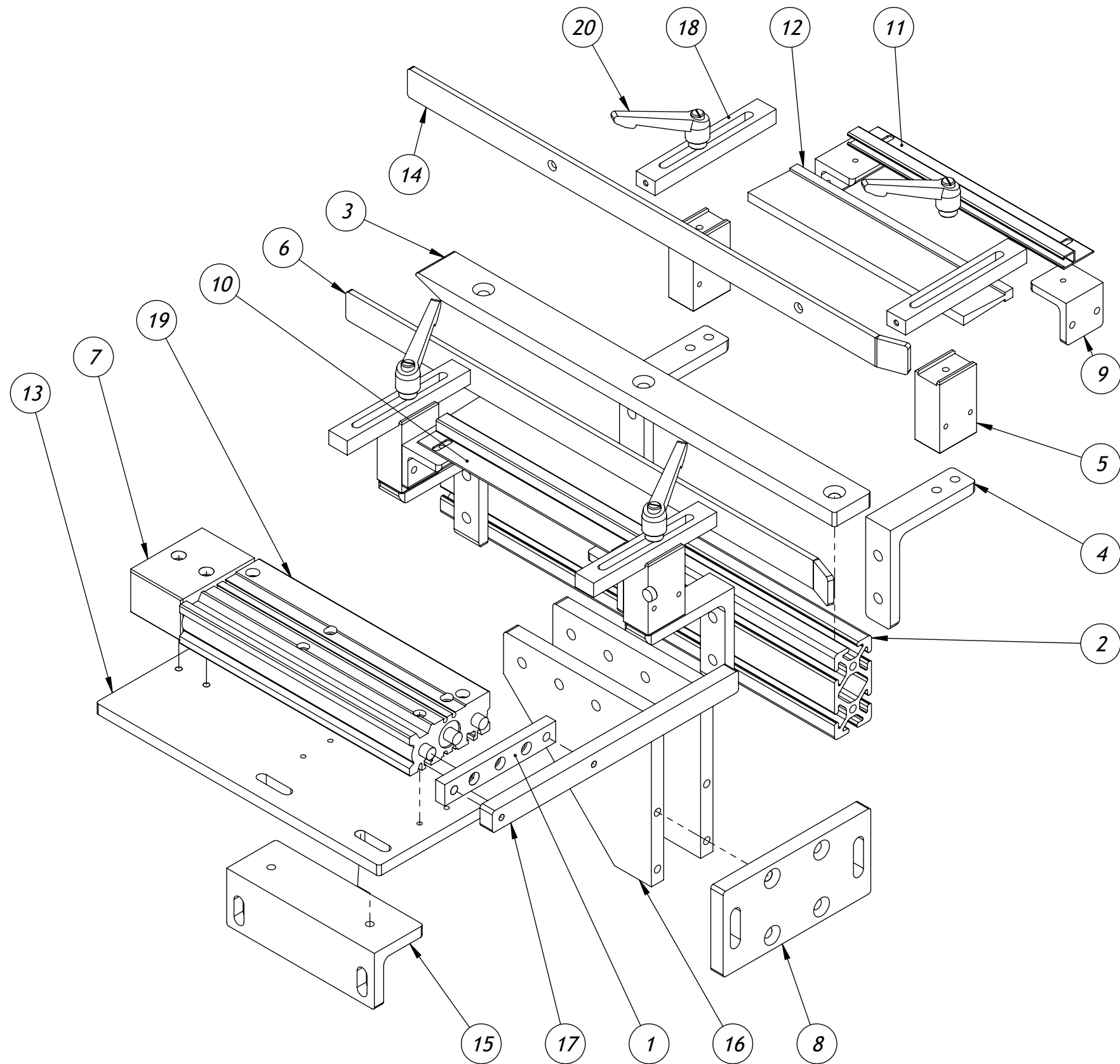
PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



PART NAME PRODUCT INSERTER ASSY			
MACHINE MODEL VERTICAL CARTONER			
DWG NO. CC-003-07			REV -
DESIGN	DRAWN JFdez	DATE 1/15/2020	SHEET 2 OF 2

M:101 ORDERS IN PROGRESS\19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)\1-Mechanical\1-Assembly\



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-04-12	CYLINDER FRONT MOUNTING
2	1	CC-003-08-02	BEAM
3	1	CC-003-08-03	BOTTOM SLIDE
4	4	CC-003-08-04	SUPPORT ANGLE
5	4	CC-003-08-05	COLUMN
6	1	CC-003-08-06	SIDE GUIDE
7	1	CC-003-08-07	ROD COVER
8	1	CC-003-08-09	CONNECT PLATE
9	4	CC-003-08-10	SUPPORT ANGLE
10	1	CC-003-08-11-1	BRUSH HOLDER
11	1	CC-003-08-11-2	BRUSH HOLDER
12	2	CC-003-08-12	BRUSH
13	1	CC-003-08-13	CYLINDER BASE
14	1	CC-003-08-14	SIDE GUIDE-2
15	1	CC-003-08-15	SUPPORT ANGLE
16	2	CC-003-08-16	BEAM SUPPORT
17	1	CC-003-08-17	EXTRACTOR PLATE 2
18	4	CC-003-10-10	REAR BEAM SUPPORT
19	1	ACGUI20X200MM	AIR CYLINDER, 20mm X 200 STK
20	4	ZCL-2011	LOCK HANDLE 1/4-20

PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

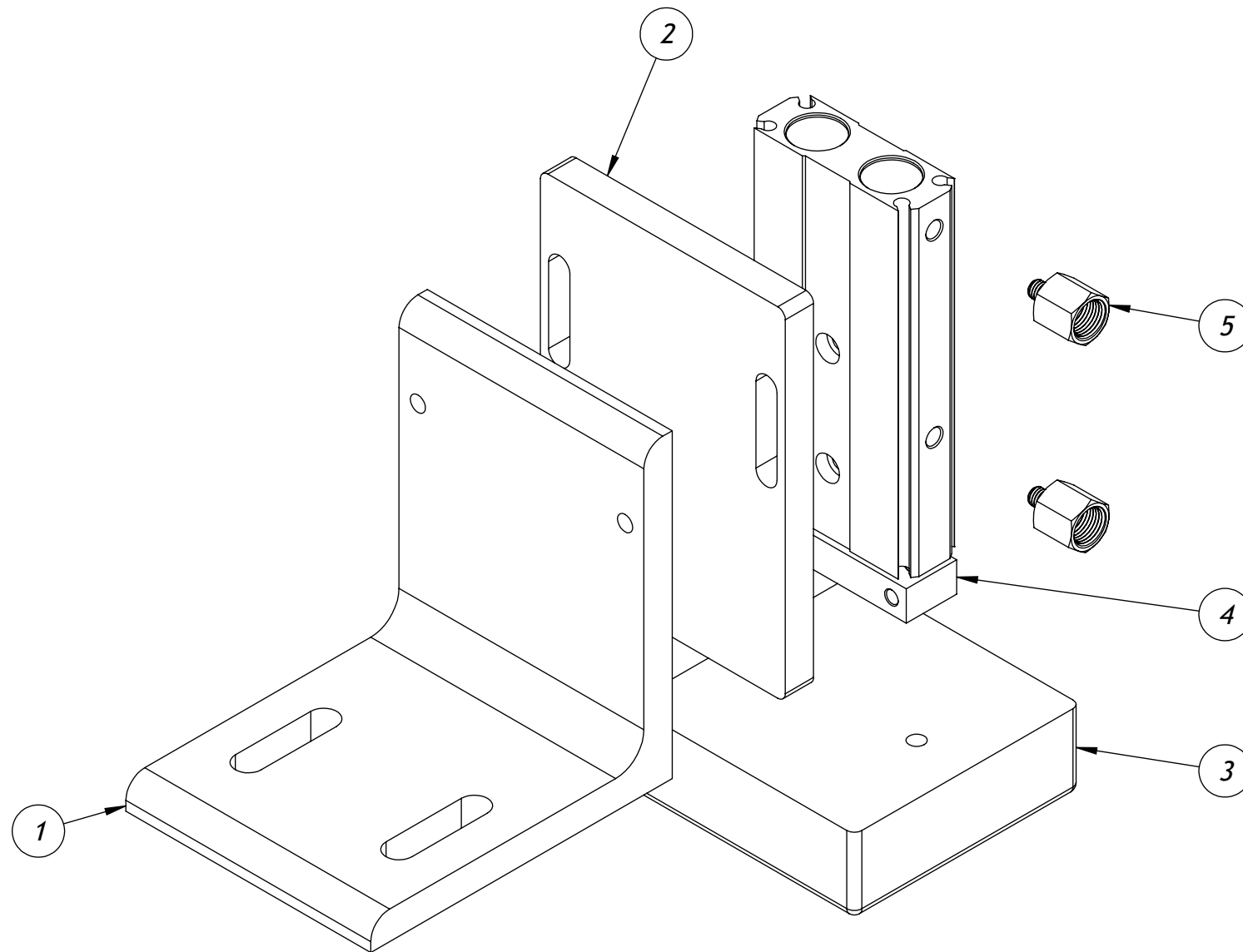
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME EXTRACTOR			
MACHINE MODEL VERTICAL CARTONER			
DWG NO. CC-003-08			REV -
DESIGN	DRAWN JFdez	DATE 9/3/2019	SHEET 1 OF 1

M:101 ORDERS IN PROGRESS|19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)|1-Mechanical|1-Assembly|

ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-09-01	ANGLE
2	1	CC-003-09-02	CYLINDER BASE
3	1	CC-003-09-04	LIP PUSHER FLAT
4	1	ACTWN15-50	TWIN ROD CYLINDER 15X50MM
5	2	1/8 NPT (F)-M5X0.8 MM (M) ADAP	REDUCING ADAPTER



PROJECT **19548**

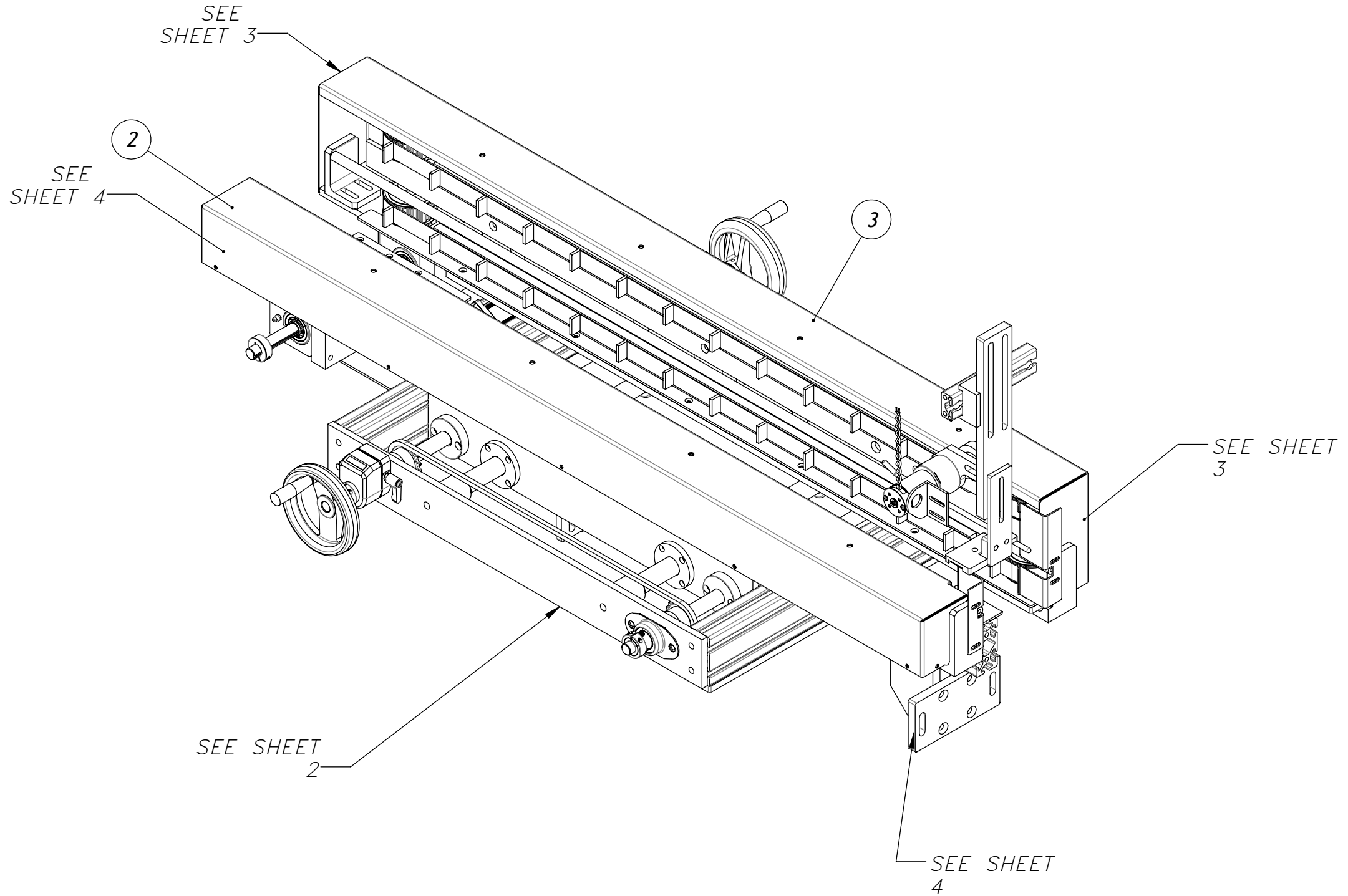
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		LIP TUCKER		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.	CC-003-09		REV	-
DESIGN	DRAWN	DATE	SCALE	SHEET
	D.S	8/29/2019	1:32	1 OF 1

M:01 ORDERS IN PROGRESS\19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)\1-Mechanical\1-Assembly\



PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

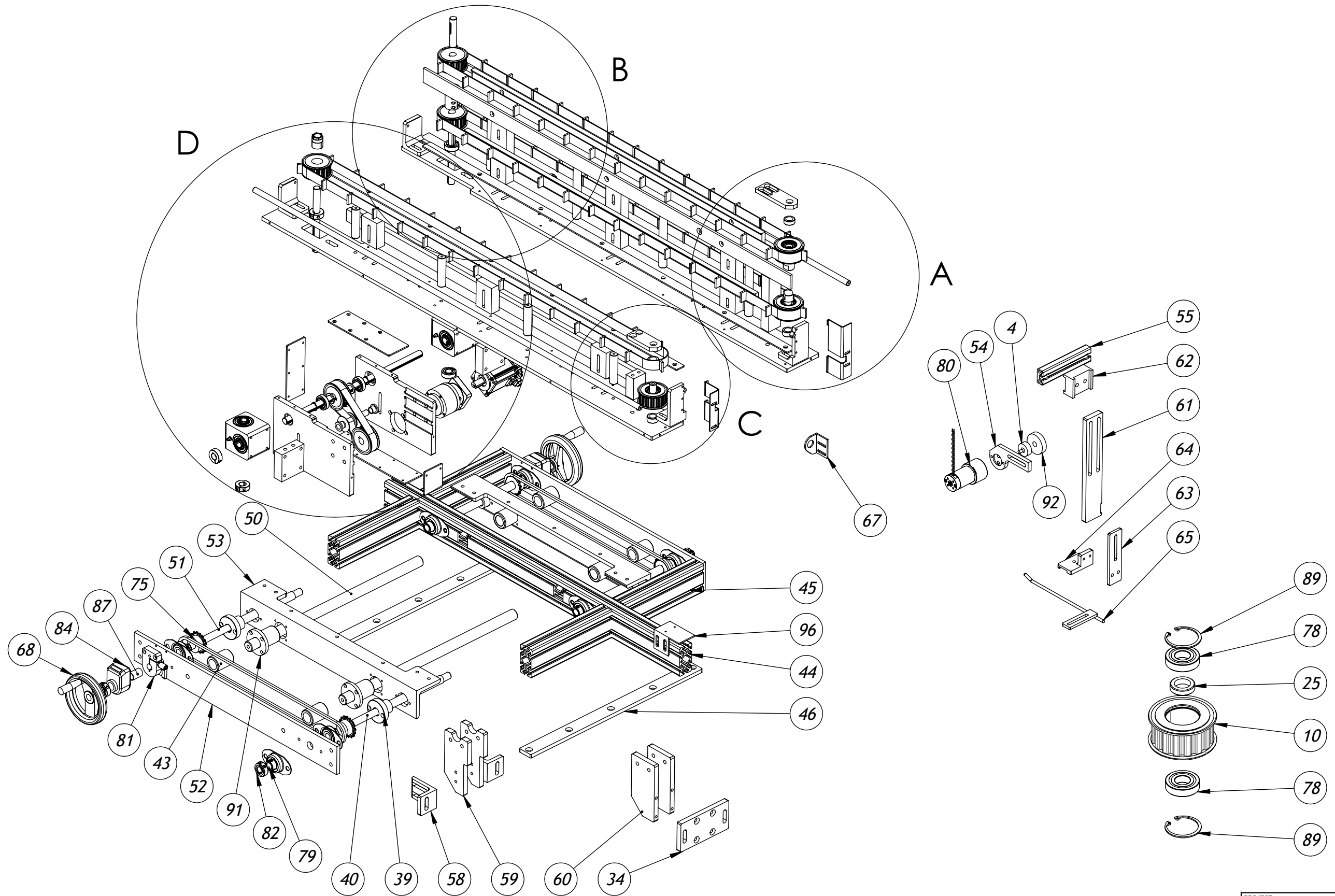
THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PROJECT
19548

PART NAME				BLANK HOPPER	
MACHINE MODEL				VERTICAL CARTONER	
DWG NO.				CC-003-10	
DESIGN	DRAWN	DATE	SHEET	REV	
	JFdez	1/13/2020	1 OF 5	-	

M:01 ORDERS IN PROGRESS | 19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC) | 1-Mechanical | 1-Assembly



PROJECT **19548**

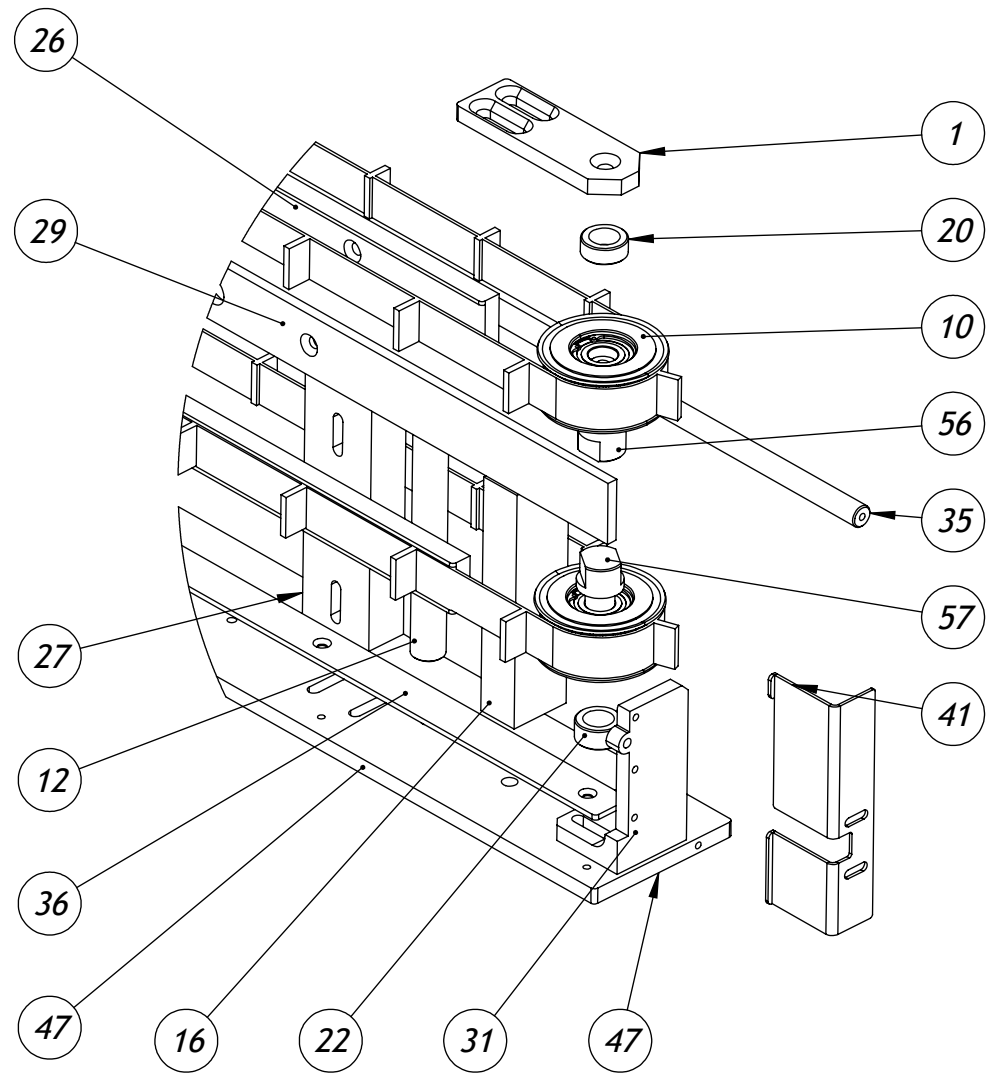
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.

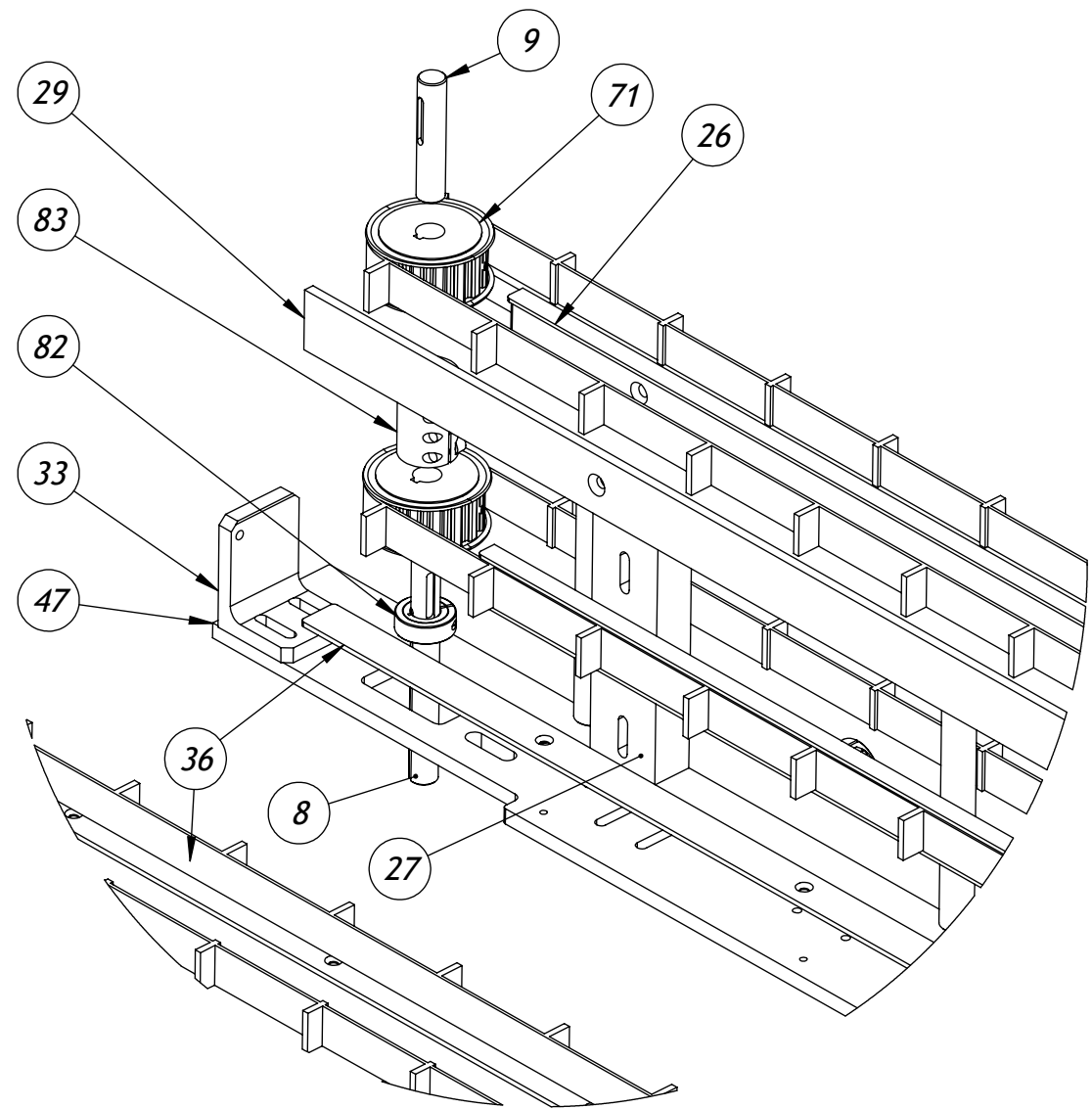


PART NAME		BLANK HOPPER	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.		CC-003-10	
DESIGN	DRAWN	DATE	SHEET
	JFdez	1/13/2020	2 OF 5

M:01 ORDERS IN PROGRESS\19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)\1-Mechanical\1-Assembly\



DETAIL A
SCALE 1 : 4



DETAIL B
SCALE 1 : 4

PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



PROJECT
19548

PART NAME BLANK HOPPER			
MACHINE MODEL VERTICAL CARTONER			
DWG NO. CC-003-10			REV -
DESIGN	DRAWN JFdez	DATE 1/13/2020	SHEET 3 OF 5

M:101 ORDERS IN PROGRESS | 19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC) | 1-Mechanical | 1-Assembly

ASSEMBLY BILL OF MATERIALS				ASSEMBLY BILL OF MATERIALS				ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description	ITEM	QTY.	PARTNO	Description	ITEM	QTY.	PARTNO	Description
85	1	RA0.62 LH	REDUCER RIGHT ANGLE 1:1, COMPACT 5/8" BORE LH	43	4	CC-003-10-111	COVER SHAFT	1	1	CC-001-10-38	IDLER TOP SUPPORT
86	1	RA0.62 RH	REDUCER RIGHT ANGLE 1:1, COMPACT 5/8" BORE	44	1	CC-003-10-115	SUPPORT BEAM	2	1	CC-001-10-43	SMALL COVER
87	2	RB52 3/4-5/8	BUSHING	45	4	CC-003-10-116	ADJUSTING BEAM	3	1	CC-001-10-85	LARGE COVER
88	2	SNAPRING 5/8	EXTERNAL RETAINING RING DIA 5/8	46	2	CC-003-10-117	ADJUSTING BEAM SUPPORT	4	1	CC-001-10-112	BRUSH HOLDER-2
89	6	SNAPRING INNER 1-3/8	RETAINING RING INTERNAL ø1-3/8	47	1	CC-003-10-118-1	BASE PLATE	5	1	CC-003-10-25-1	MOTOR BASE
90	1	TRANT 0.62	TRANTORQUE COUPLING 5/8" BORE	48	1	CC-003-10-118-2	BASE PLATE	6	1	CC-003-10-25-2	MOTOR BASE
91	4	U-LHFR1.00	FLANGED LINEAR BUSHING, 1"	49	1	CC-003-10-119	CENTER SHAFT	7	1	CC-003-10-27	TENSIONER SHAFT
92	1	WHEEL BRUSH-2"	WHEEL BRUSH DIA. 2"	50	2	CC-003-10-120	GUIDE ROD	8	1	CC-003-10-28	BOTTOM DRIVE SHAFT
93	3	960H100-15MMX1"X4" CLEATED	TIMING BELT, H TYPE, 96" L X 1" W, CLEATS 25.4X15mm, SPACED 4"	51	2	CC-003-10-121	ADJUSTING SCREW	9	1	CC-003-10-29	TOP DRIVE SHAFT
94	1	173L075	TIMING BELT, L TYPE, 17.2" L	52	2	CC-003-10-122	PLATE	10	3	CC-003-10-31	IDLER PULLEY MODIF
95	2	35 CHAIN	LENGTH 44.625" (119 LINKS)	53	2	CC-003-10-123	HOPPER ANGLE	11	1	CC-003-10-32	SHORT IDLER SHAFT
96	1	CC-001-10-71	REFLECTOR BRACKET	54	1	CC-003-10-134	BRUSH MOTOR BRACKET	12	4	CC-003-10-33	LONG COLUMN
				55	1	CC-003-10-136	BRUSH HORIZONTAL GUIDE	13	4	CC-003-10-34	SHORT COLUMN
				56	1	CC-003-10-137	PULLEY SHAFT	14	1	CC-003-10-35	TOP CAP
				57	1	CC-003-10-138	PULLEY SHAFT-1	15	1	CC-003-10-36	END CAP
				58	2	CC-003-10-139	HOPPER ANGLE	16	1	CC-003-10-37	IDLER SUPPORT BLOCK
				59	2	CC-003-10-140	BEAM SUPPORT REAR	17	1	CC-003-10-38	IDLER TOP SUPPORT
				60	2	CC-003-10-141	BEAM SUPPORT REAR	18	1	CC-003-10-39	SUPPORT BLOCK SHORT
				61	1	CC-003-10-142	BRUSH VERTICAL ADJUSTMENT LONG	19	1	CC-003-10-41	TENSIONER PULLEY
				62	1	CC-003-10-143	BRUSH SPACER LONG	20	1	CC-003-10-44	TOP IDLER SPACER
				63	1	CC-003-10-144	BOX GUIDE PLATE	21	2	CC-003-10-45	GEARBOX SPACER
				64	1	CC-003-10-145	BLANK GUIDE ANGLE	22	2	CC-003-10-48	IDLER SPACER SHORT
				65	1	CC-003-10-146	BLANK GUIDE	23	1	CC-003-10-50	BOTTOM DRIVE SHAFT
				66	1	CC-003-10-147	TOP IDLER SPACER MOD	24	2	CC-003-10-53	TOP IDLER SPACER
				67	1	STD-002-1006	FRONT OFFSET PHOTOCELL MTG BKT - RH	25	3	CC-003-10-54	BEARING SPACER
				68	2	STD-002-1095	HAND WHEEL, Ø5" W/ HANDLE	26	3	CC-003-10-56	BACKING PLATE
				69	1	0.25 RIGID COUP	COUPLING	27	3	CC-003-10-57	BACKING SUPPORT LONG
				70	2	05-062-050FLBU	BRONZE BEARING	28	3	CC-003-10-58	BACKING SUPPORT SHORT
				71	2	16H100-062 W/KEY	TIMING PULLEY, Z=16, H TYPE, 5/8 WITH KEYWAY	29	1	CC-003-10-73	SIDE PLATE
				72	1	16H100-100	TIMING PULLEY	30	1	CC-003-10-78-1	GUIDE ROD SUPPORT
				73	1	20L075A-16-W/KEY	TIMING PULLEY 20 TEETH, SHAPE A, 16mm BORE WITH KEY, BELT TYPE L	31	1	CC-003-10-78-2	GUIDE ROD SUPPORT
				74	1	20L075-062 W/KEY	TIMING PULLEY, Z=20, H TYPE, 5/8" WITH KEYWAY	32	1	CC-003-10-79-1	GUIDE ROD SUPPORT REAR
				75	4	35B16 5/8 W KEY	SPROCKET	33	1	CC-003-10-79-2	GUIDE ROD SUPPORT REAR
				76	1	AA AP GBX 8-1 0.4K	GEAR REDUCER, 8:1 FOR 400W SERVO MOTOR	34	1	CC-003-10-80	CONNECT PLATE
				77	1	AA SRVMTR 400W	SERVOMOTOR 400W,240V,3000rpm	35	2	CC-003-10-86	GUIDE ROD
				78	8	BB0.62X1.375.344 SEALED-RATED	5/8 ID X 1-3/8OD X 11/32 WIDE SEALED BALL BEARING. RATED ABEC-1	36	2	CC-003-10-87	BOTTOM GUIDE
				79	10	BRF2-062 LIGHT	5/8" 2-BOLT FLANGE BEARING LIGHT	37	1	CC-003-10-93	BOTTOM COVER
				80	1	BRUSHED DC MOTOR	GEAR MOTOR	38	1	CC-003-10-94	BOTTOM COVER FRONT
				81	2	BSA52-16	LOCKING BASE FOR DD52R	39	4	CC-003-10-95	ADJUSTING NUT
				82	10	COL 0.625-1P	5/8 1-PC CLAMP-ON STL COLLAR	40	2	CC-003-10-108	ADJUSTING SCREW IDLER
				83	1	COUP. 5/8 NO KEYWAY	ONE PIECE CLAMP-ON COUPLING W/O KEYWAY 5/8 ID	41	1	CC-003-10-148	SIDE STRIPPER LEFT EXTENDED
				84	2	DIAL IND 2 CW	DIAL INDICATOR	42	1	CC-003-10-110	SIDE STRIPPER

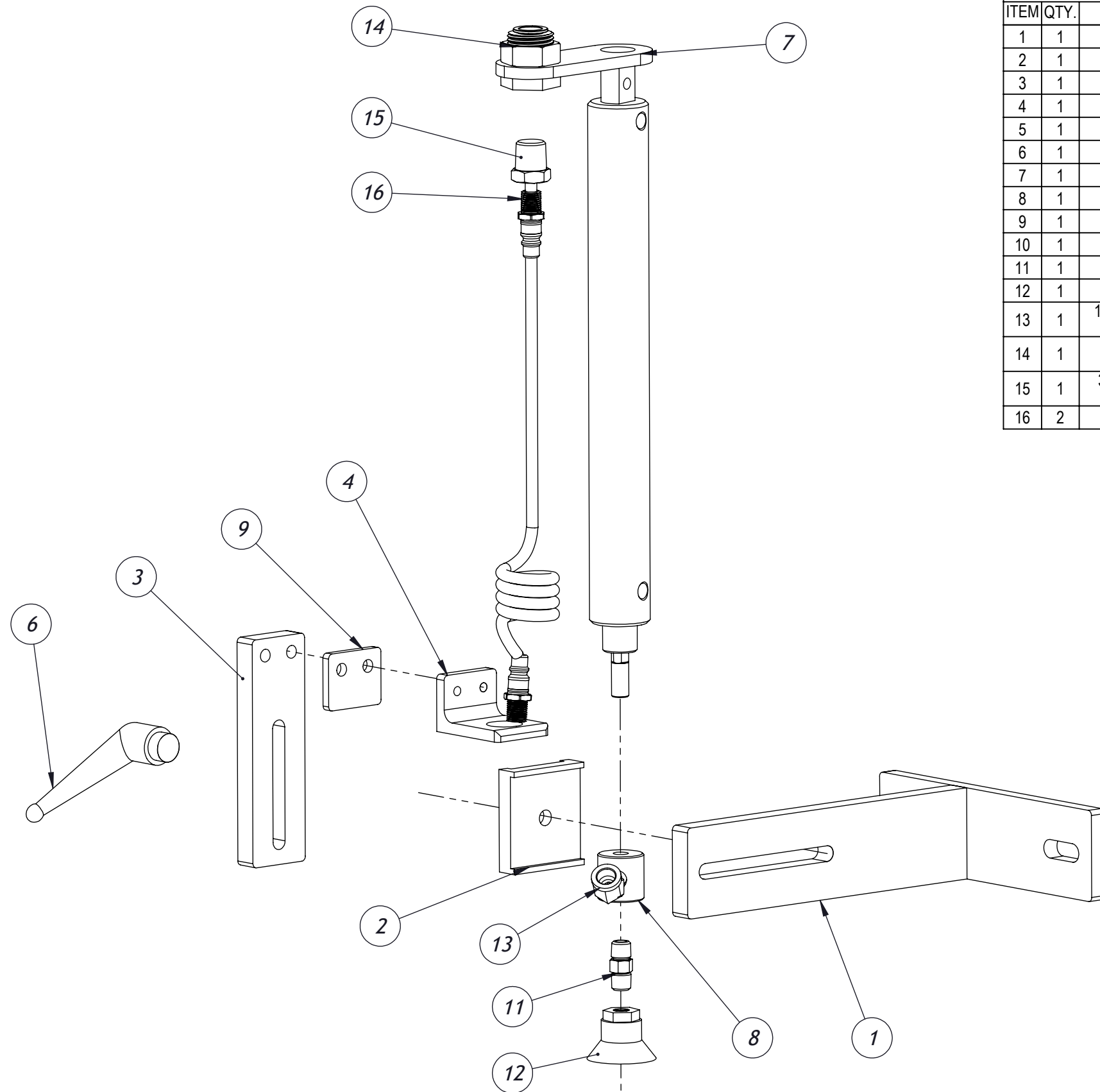
PROJECT **19548**

PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



PART NAME BLANK HOPPER			
MACHINE MODEL VERTICAL CARTONER			
DWG NO. CC-003-10		REV -	
DESIGN	DRAWN JFdez	DATE 1/13/2020	SHEET 5 OF 5



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-11-01	SUPPORT BRACKET
2	1	CC-003-11-02	SLIDE
3	1	CC-003-11-03	ADJUSTING PLATE
4	1	CC-003-11-04	CYLINDER BASE
5	1	UDR-20-8-BM	AIR CYLINDER
6	1	ZCL-3031	LOCK HANDLE 5/16-18
7	1	CC-003-11-08	COIL SUPPORT BRACKET
8	1	CC-003-11-09	VACUUM CONNECTOR
9	1	CC-003-11-10	SPACER
10	1	CC-003-11-11	AIR HOSE
11	1	1/8 HEX NIPPLE	1/8 HIGH-PRESSURE STEEL NIPPLE
12	1	VC-59LA 1/8NPT	VACUUM CUP DIA 1.5, CLEATED 1/8 NPT
13	1	1/8X45DEGREE MXF ELBOW	1/8 X 45 DEGREE MALE X FEMALE ELBOW
14	1	KQ2E13-36	BULKHEAD CONNECTOR 1/2 TUBING TO 3/8 NPT.
15	1	3/8 X 1/8 REDUCER BUSHING	3/8 MALE NPT X 1/8 FEMALE NPT STEEL REDUCER BUSHING
16	2	PSM53202-016ID	HOSE END FOR COIL HOSE 1/4 OD X .160 ID

PROJECT **19548**

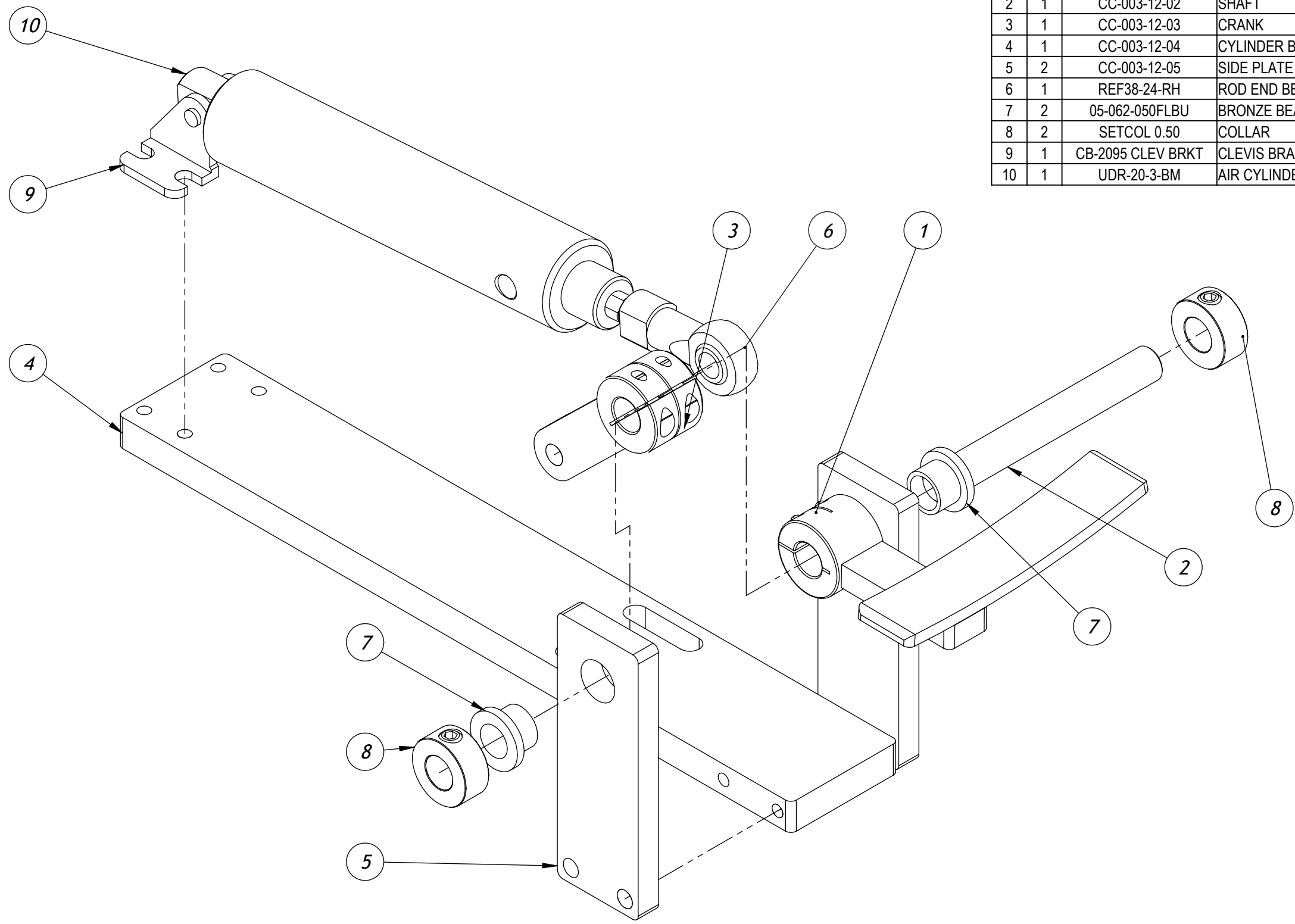
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		PRODUCT PUSHER		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.		CC-003-11		REV -
DESIGN	DRAWN	DATE	SCALE	SHEET
	vguzzo	1/9/2020	3:8	1 OF 1

ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-12-01	PIVOT
2	1	CC-003-12-02	SHAFT
3	1	CC-003-12-03	CRANK
4	1	CC-003-12-04	CYLINDER BASE
5	2	CC-003-12-05	SIDE PLATE
6	1	REF38-24-RH	ROD END BEARING
7	2	05-062-050FLBU	BRONZE BEARING
8	2	SETCOL 0.50	COLLAR
9	1	CB-2095 CLEV BRKT	CLEVIS BRACKET
10	1	UDR-20-3-BM	AIR CYLINDER



M:101 ORDERS IN PROGRESS/19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)1-Mechanical/1-Assembly/

PROJECT **19548**

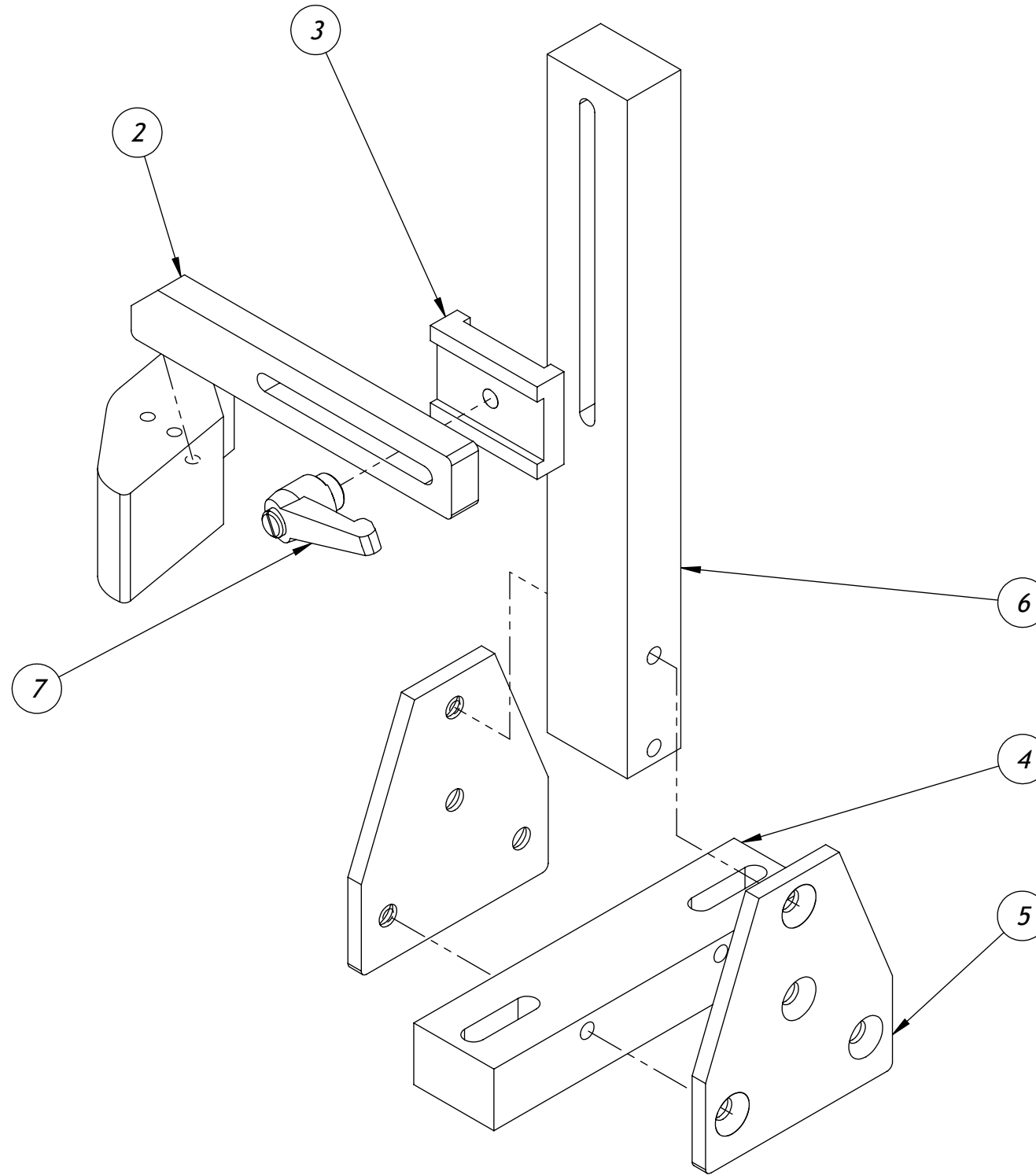
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		BOX HOLDER	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.	CC-003-12	REV	-
DESIGN	DRAWN V.Guzzo	DATE 8/29/2019	SCALE 1:32 SHEET 1 OF 1

ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-13-01	OPENER PLATE V2
2	1	CC-003-13-02	ADJUSTING BAR
3	1	CC-003-13-03	SLIDE BLOCK
4	1	CC-003-13-04	HORIZONTAL BEAM
5	2	CC-003-13-05	JOINT BRACKET
6	1	CC-003-13-06	VERTICAL BEAM
7	1	ZCL-2011	LOCK HANDLE 1/4-20



M:101 ORDERS IN PROGRESS|19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)|1-Mechanical|1-Assembly|

PROJECT **19548**

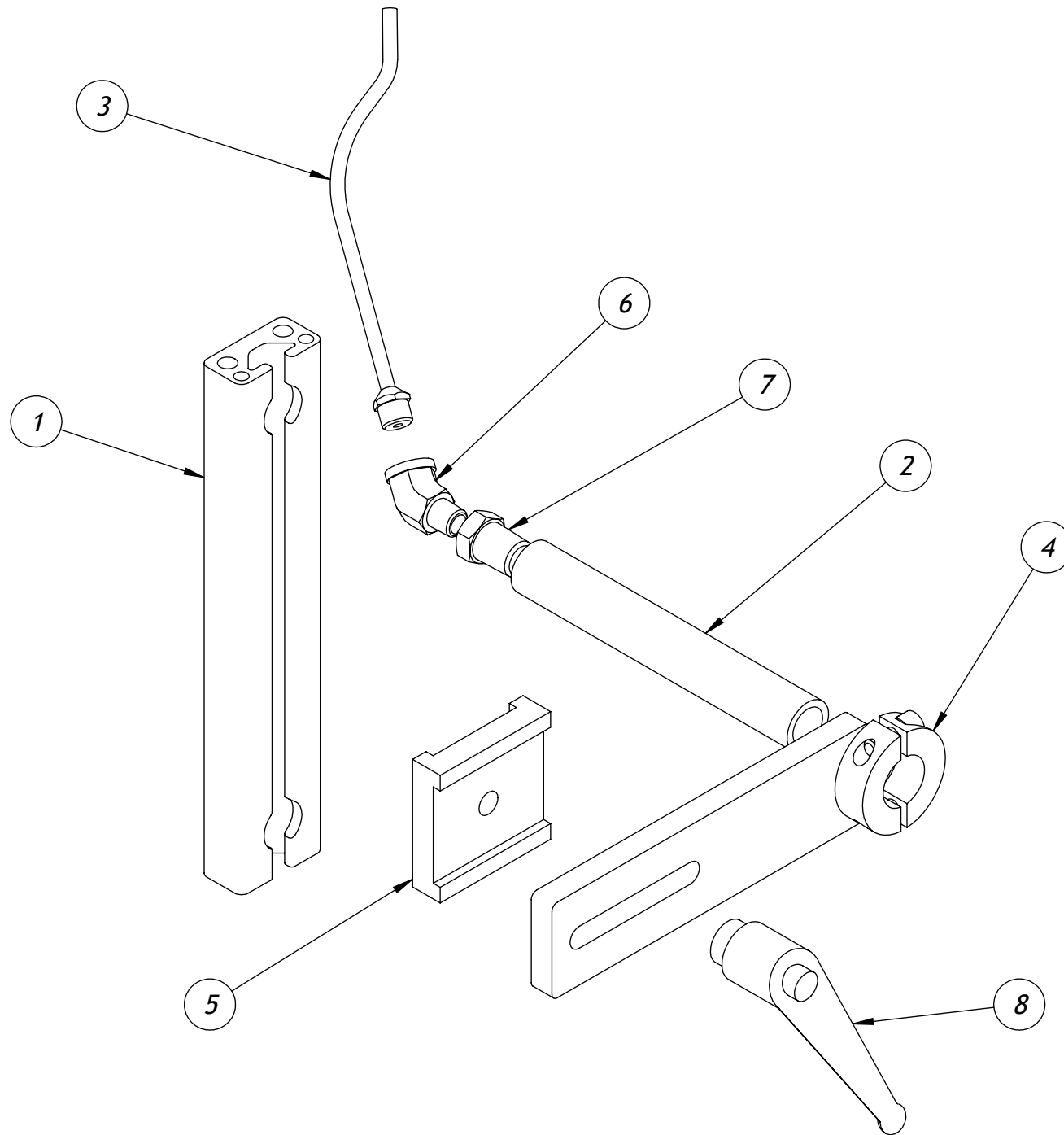
PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
MACHINERY, LLC.



PART NAME		OPENER ASSY		
MACHINE MODEL		CARTONER		
DWG NO.		CC-003-13		REV -
DESIGN	D.S	DRAWN	JFdez	DATE 1/13/2020
SCALE		1:32		SHEET 1 OF 1

M:101 ORDERS IN PROGRESS/19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC)1-Mechanical/1-Assembly/



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-14-01	VERTICAL SLIDE
2	1	CC-003-14-03	TUBE
3	1	CC-003-14-04	NOZZLE
4	1	CC-003-14-05	TUBE SUPPORT V2
5	1	CC-003-14-06	SLIDE BLOCK
6	1	1/8X45DEGREE MXF ELBOW	1/8 X 45 DEGREE MALE X FEMALE ELBOW
7	1	1/4x1/8Redbsh	1/4 x 1/8 HIGH PRESSURE STEEL REDUCER BUSHING
8	1	ZCL-3031	LOCK HANDLE 5/16-18

PROJECT **19548**

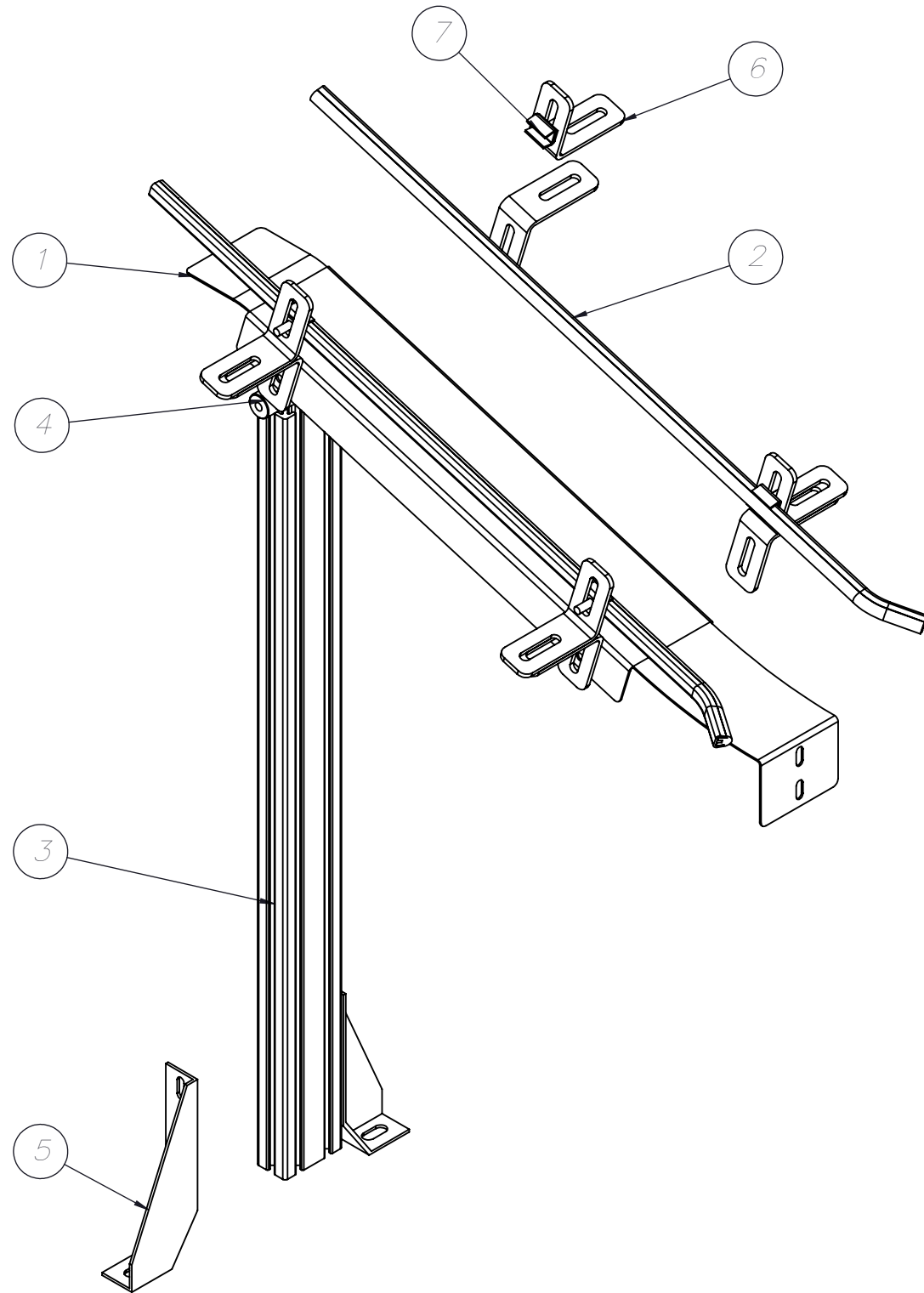
PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		FLAP OPENER	
MACHINE MODEL		VERTICAL CARTONER	
DWG NO.	CC-003-14	REV	-
DESIGN	DRAWN R.Mena	DATE 8/29/2019	SCALE 1:32 SHEET 1 OF 1

M101 ORDERS IN PROGRESS 19548 KARTNER - WEIGHPACK (MEDICAN ORGANIC) Mechanical Assembly



ASSEMBLY BILL OF MATERIALS			
ITEM	QTY.	PARTNO	Description
1	1	CC-003-16-01	RAMP
2	2	CC-003-16-02	SIDE GUIDE
3	1	CC-003-16-03	LEG
4	2	CC-003-16-04	SPACER
5	2	14010	14010 80/20 FLOOR BRACKET 15 SERIES
6	8	VG-205-B-316-S	RAIL BRACKET
7	4	VG-018-01 .675LG	CLIP (RAIL MOUNTING) 5/16 UNC X 5/8" LG

PROJECT **19548**

PROPRIETARY PROPERTY
 THIS DRAWING AND INFORMATION CONTAINED THERON IS EXCLUSIVE PROPERTY OF
 ENDFLEX PACKAGING MACHINERY, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO
 RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS
 PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX PACKAGING MACHINERY, LLC. AND NOT TO BE
 USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX PACKAGING
 MACHINERY, LLC.



PART NAME		DISCHARGE RAMP		
MACHINE MODEL		VERTICAL CARTONER		
DWG NO.	CC-003-16		REV	-
DESIGN	DRAWN	DATE	SCALE	SHEET
	vguzzo	1/13/2020	1:6	1 OF 1

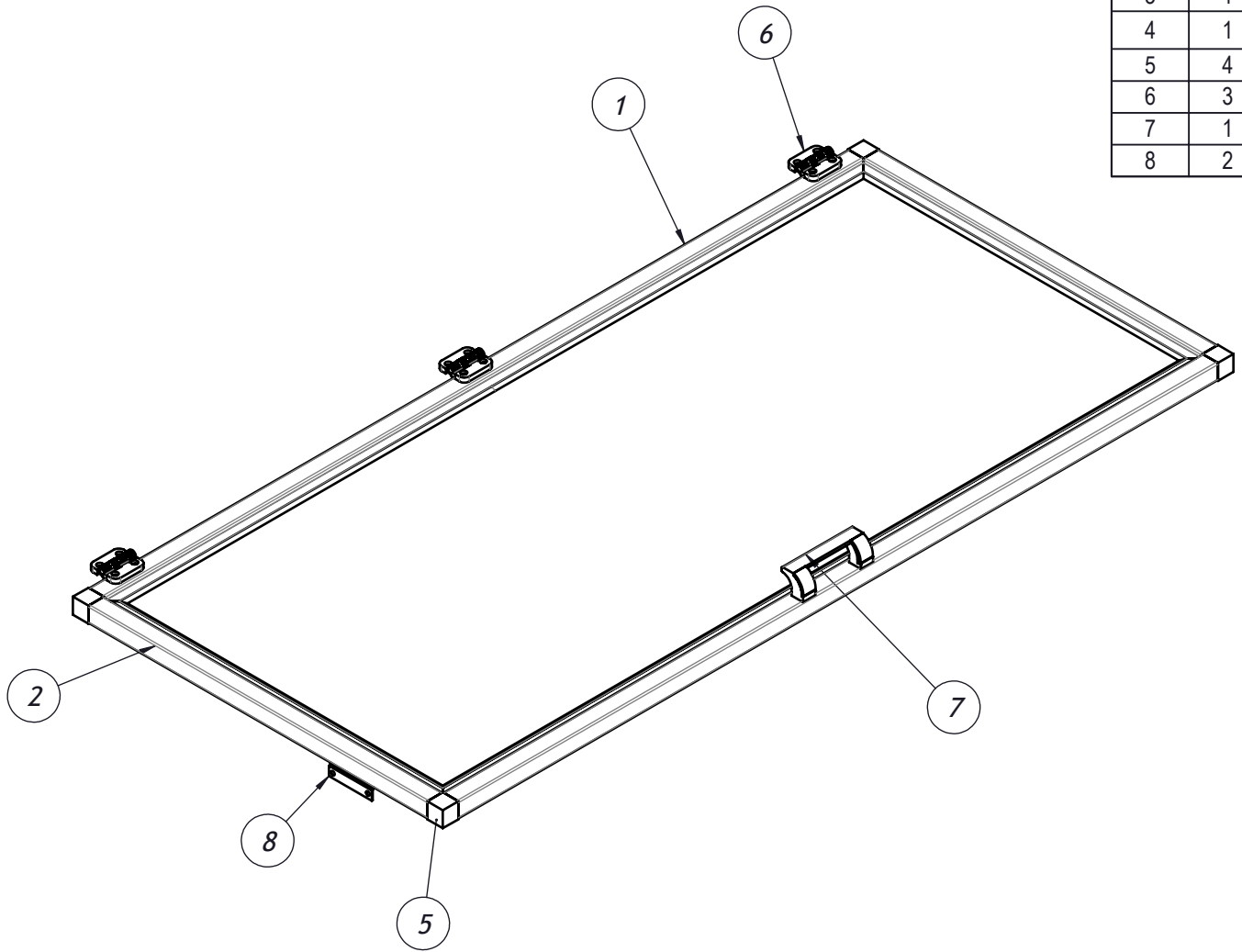
PRINTED BY: VGUZZO

PRINTED BY: yguizzo

CUT BY:	LAYOUT BY:	MACHINED BY:	WELDED BY:
---------	------------	--------------	------------

ASSY NUMBER:	NUMBER:	OF
--------------	---------	----

ITEM	QTY.	DESCRIPTION	LENGTH
1	2	9025 QF TUBING	48 3/4"
2	2	9025 QF TUBING	21 3/4"
3	1	1/4" PLEXIGLASS X 21 5/8"	48 5/8"
4	1	2117 GASKET X 137	
5	4	9220 CORNER	
6	3	SC-466EL	
7	1	JW-ERG-HAND	
8	2	TEN CATCH	



KILL ALL SHARP CORNERS R0.10

PROPRIETARY PROPERTY
THIS DRAWING AND INFORMATION CONTAINED THEREON IS EXCLUSIVE PROPERTY OF ENDFLEX, LLC. MIAMI, FL. USA. OWNER RESERVES THE RIGHT TO RECALL DRAWING UPON DEMAND AND TO COLLECT DAMAGES FOR MISUSE OF ITS PROPRIETARY INFORMATION.

THIS DRAWING IS THE PROPERTY OF ENDFLEX, LLC. AND NOT TO BE USED IN ANY WAY WITHOUT THE EXPRESS WRITTEN CONSENT OF ENDFLEX, LLC.

SHEET NUMBER	1 OF 1
--------------	--------

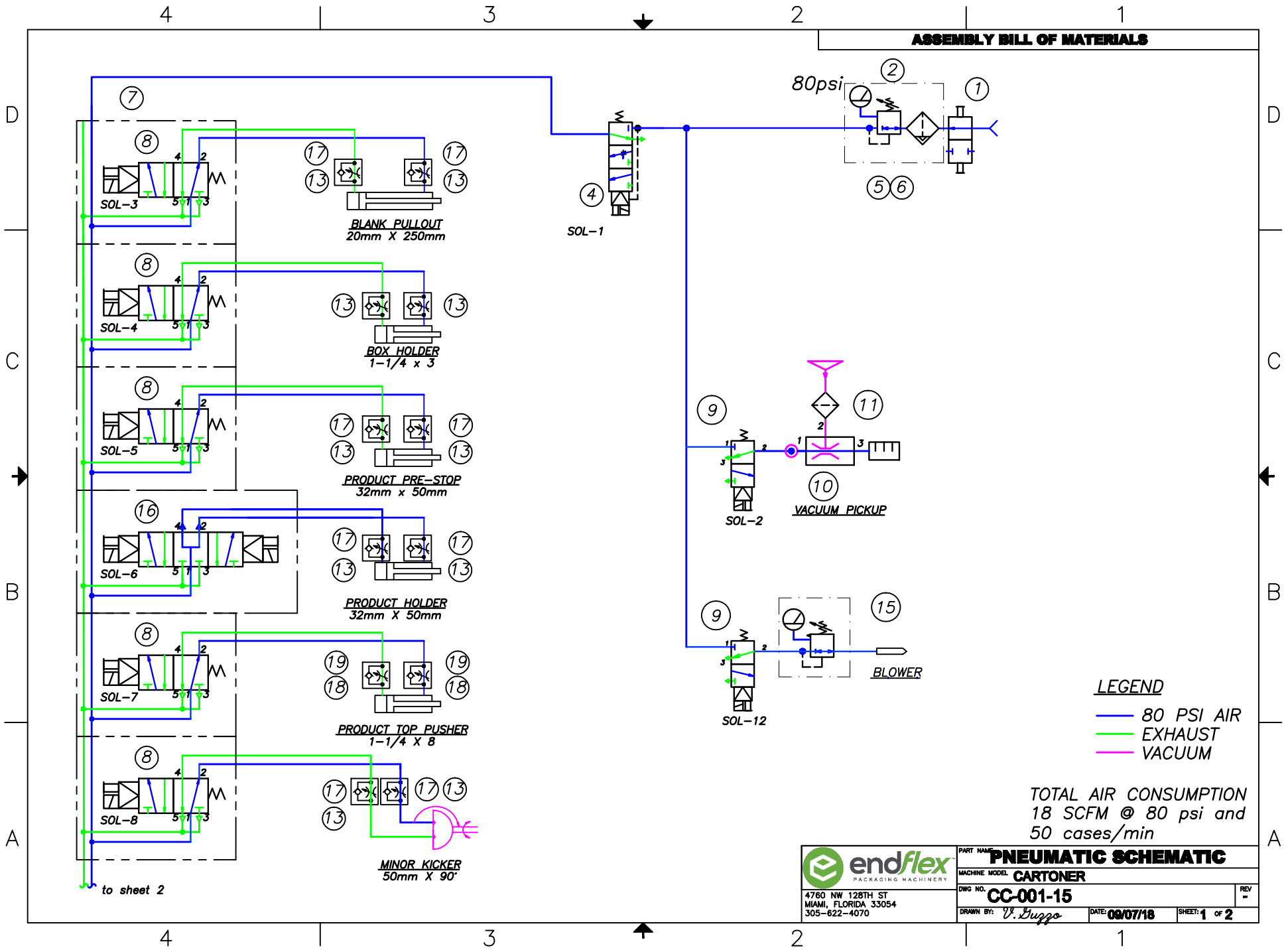
FINISH
NONE

QUANTITY:
2 - AS SHOWN
0 - OPP HAND

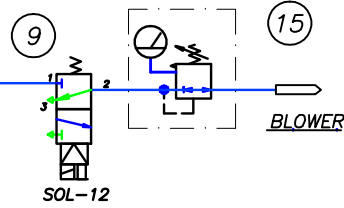
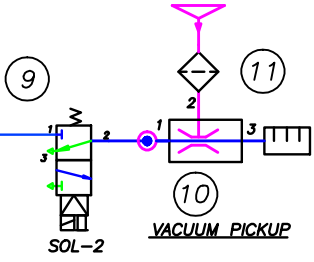
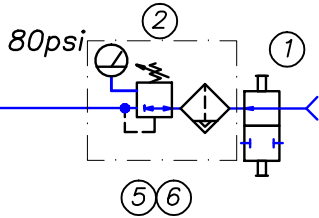
TOLERANCES UNLESS NOTED OTHER WISE
0.00 = ±1/32
0.000 = ±0.005
MACHINE FINISH 125



PART NAME	DOOR		
MACHINE MODEL			
DWG NO.	D-01		
DESIGNED	DRAWN	DATE	SCALE
	R. Mejiafernandez	8/12/2019	1:12
PROJECT NUMBER			



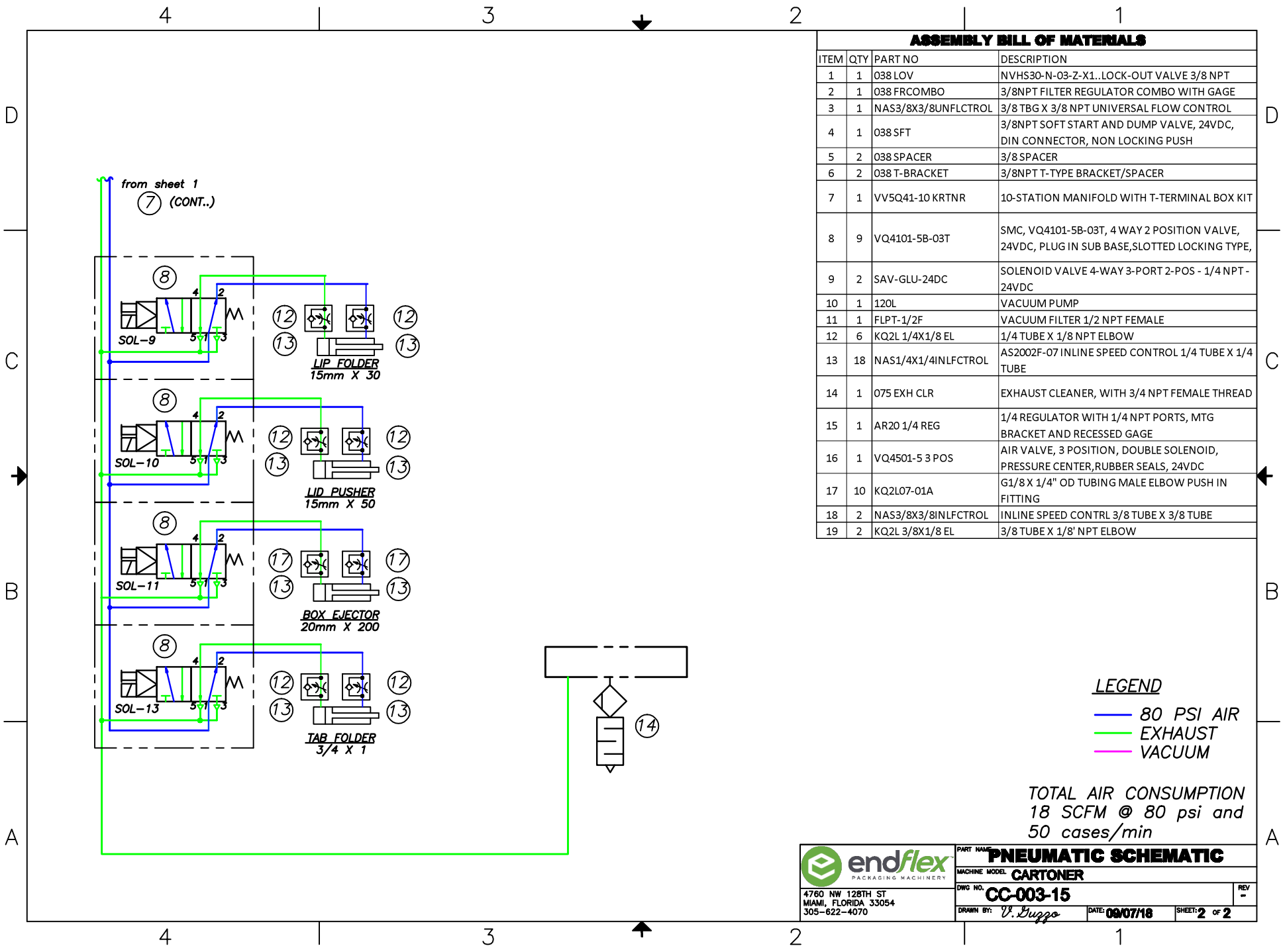
ASSEMBLY BILL OF MATERIALS



LEGEND
 — 80 PSI AIR
 — EXHAUST
 — VACUUM

TOTAL AIR CONSUMPTION
 18 SCFM @ 80 psi and
 50 cases/min

 4760 NW 128TH ST MIAMI, FLORIDA 33054 305-622-4070	PNEUMATIC SCHEMATIC		REV =
	CARTONER		
DWG NO. CC-001-15		DATE 09/07/18	SHEET 1 of 2
DRAWN BY: <i>V. Duggo</i>			



ASSEMBLY BILL OF MATERIALS

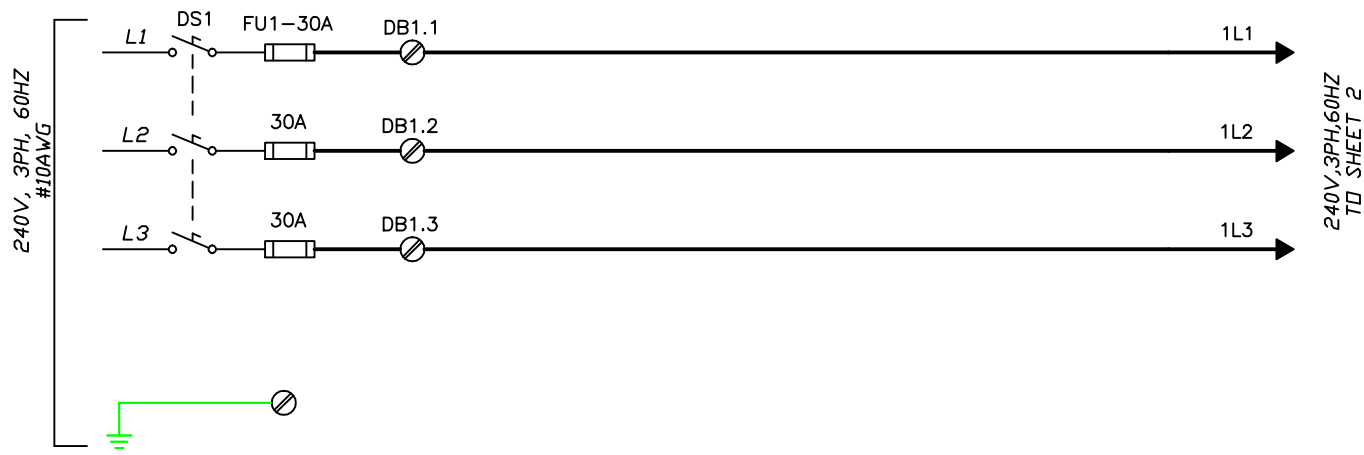
ITEM	QTY	PART NO	DESCRIPTION
1	1	038 LOV	NVHS30-N-03-Z-X1..LOCK-OUT VALVE 3/8 NPT
2	1	038 FRCOMBO	3/8NPT FILTER REGULATOR COMBO WITH GAGE
3	1	NAS3/8X3/8UNFLCTROL	3/8 TBG X 3/8 NPT UNIVERSAL FLOW CONTROL
4	1	038 SFT	3/8NPT SOFT START AND DUMP VALVE, 24VDC, DIN CONNECTOR, NON LOCKING PUSH
5	2	038 SPACER	3/8 SPACER
6	2	038 T-BRACKET	3/8NPT T-TYPE BRACKET/SPACER
7	1	VV5Q41-10 KRTNR	10-STATION MANIFOLD WITH T-TERMINAL BOX KIT
8	9	VQ4101-5B-03T	SMC, VQ4101-5B-03T, 4 WAY 2 POSITION VALVE, 24VDC, PLUG IN SUB BASE, SLOTTED LOCKING TYPE,
9	2	SAV-GLU-24DC	SOLENOID VALVE 4-WAY 3-PORT 2-POS - 1/4 NPT - 24VDC
10	1	120L	VACUUM PUMP
11	1	FLPT-1/2F	VACUUM FILTER 1/2 NPT FEMALE
12	6	KQ2L 1/4X1/8 EL	1/4 TUBE X 1/8 NPT ELBOW
13	18	NAS1/4X1/4INLFCCTRL	AS2002F-07 INLINE SPEED CONTROL 1/4 TUBE X 1/4 TUBE
14	1	075 EXH CLR	EXHAUST CLEANER, WITH 3/4 NPT FEMALE THREAD
15	1	AR20 1/4 REG	1/4 REGULATOR WITH 1/4 NPT PORTS, MTG BRACKET AND RECESSED GAGE
16	1	VQ4501-5 3 POS	AIR VALVE, 3 POSITION, DOUBLE SOLENOID, PRESSURE CENTER, RUBBER SEALS, 24VDC
17	10	KQ2L07-01A	G1/8 X 1/4" OD TUBING MALE ELBOW PUSH IN FITTING
18	2	NAS3/8X3/8INLFCCTRL	INLINE SPEED CONTRL 3/8 TUBE X 3/8 TUBE
19	2	KQ2L 3/8X1/8 EL	3/8 TUBE X 1/8" NPT ELBOW

LEGEND

- 80 PSI AIR
- EXHAUST
- VACUUM

TOTAL AIR CONSUMPTION
18 SCFM @ 80 psi and
50 cases/min

 PACKAGING MACHINERY	PART NAME: PNEUMATIC SCHEMATIC
	MACHINE MODEL: CARTONER
4760 NW 128TH ST MIAMI, FLORIDA 33054 305-622-4070	DWG NO. CC-003-15 DRAWN BY: <i>V. Guzzo</i>
DATE: 09/07/18	SHEET: 2 of 2

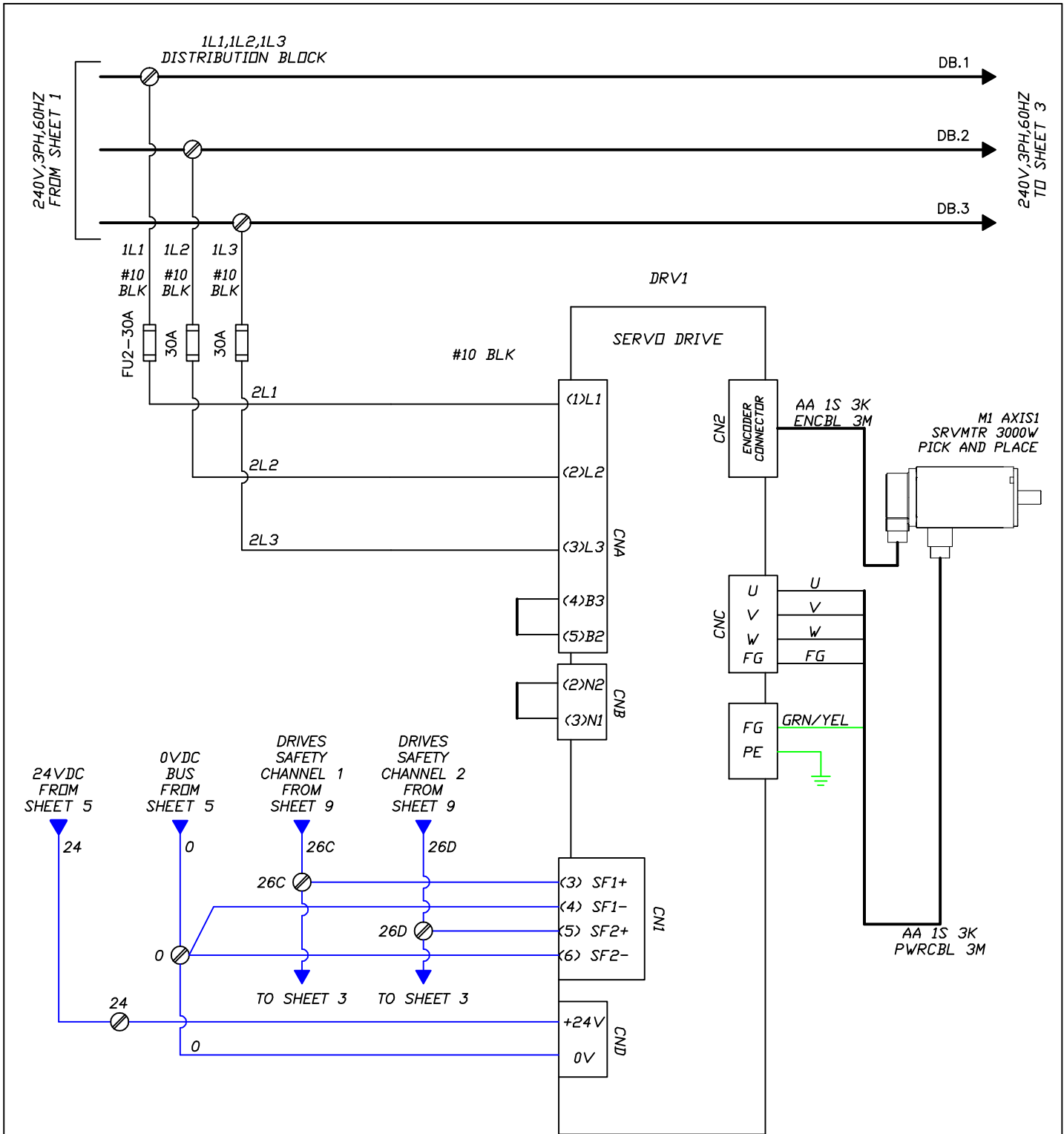


WIRE COLOR	
TYPE	COLOR
24VDC+	BLUE
0VDC	BL/WH
24VDC SIGNAL	BLUE
120VAC, HOT	RED
_	BLACK
240VAC	BLACK

S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC	
SECONDARY VOLTAGE: -			OMRON NJ/MT8073IE	DRW. NO. CC-003-99
		DATE: 02/13/20	SCALE: NONE	SHEET 1 OF 21



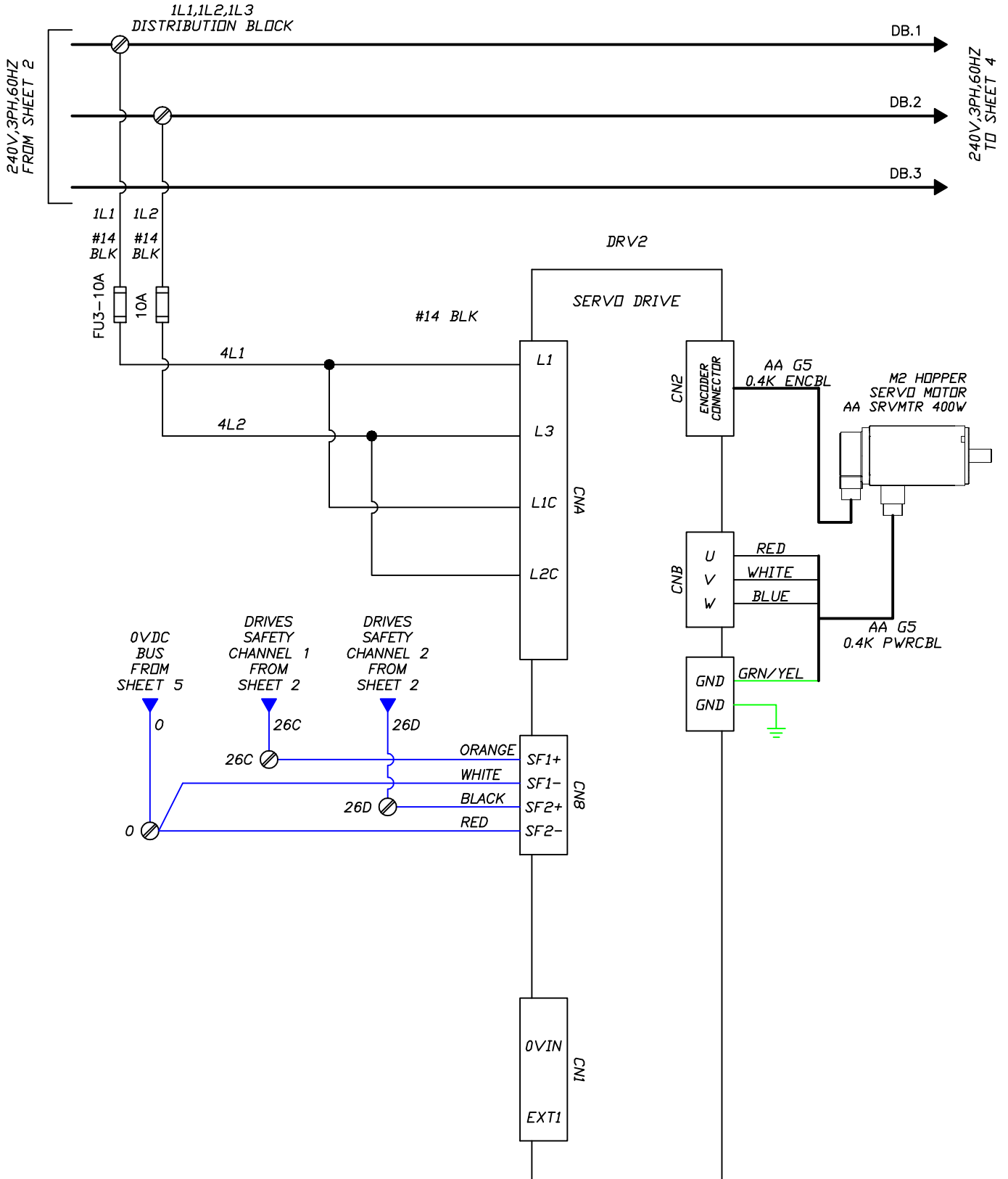
S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
Packaging Machinery, LLC
4780 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 2 OF 21



S/N 19548

02/13/20

PRIMARY VOLTAGE:	240 VAC
SECONDARY VOLTAGE:	-

CONTROL VOLTAGE:	24 VDC
------------------	--------

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

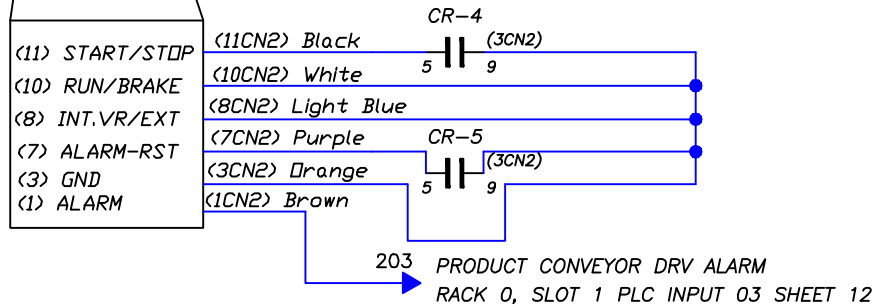
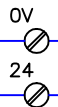
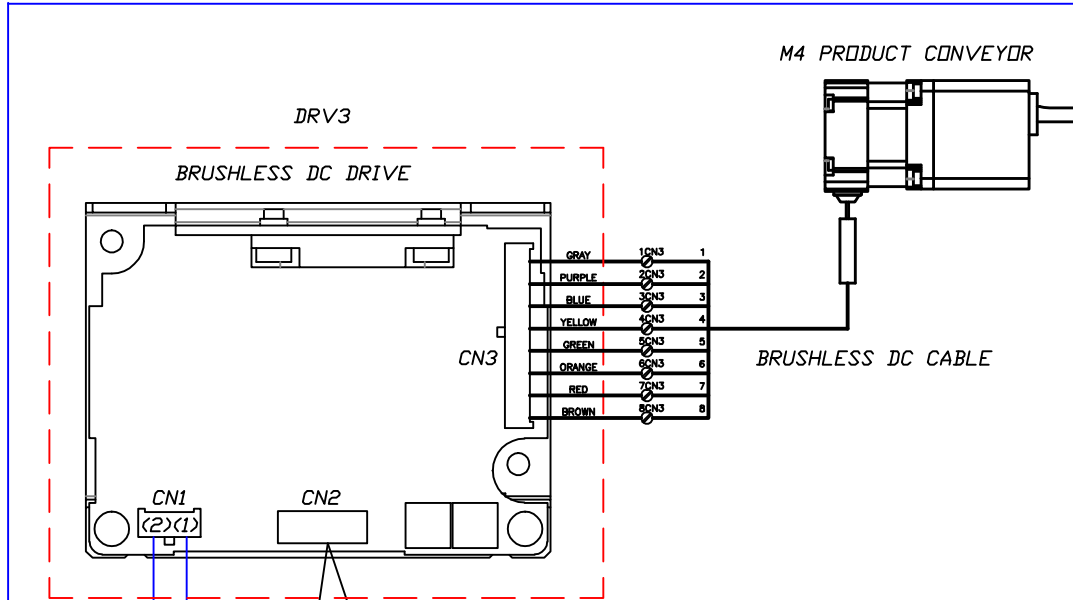
ELECTRICAL SCHEMATIC			
OMRON NJ/MT8073IE			
DRAWN BY:	DWG NO.	REV	
Y MORERA	CC-003-99		
DATE: 02/13/20	SCALE: NONE	SHEET 3 OF 21	

24VDC BUS
FROM
SHEET 5

COM VDC BUS
FROM
SHEET 5

24

0



02/13/20

PRIMARY VOLTAGE:	240 VAC
SECONDARY VOLTAGE:	-

CONTROL VOLTAGE:	24 VDC
------------------	--------

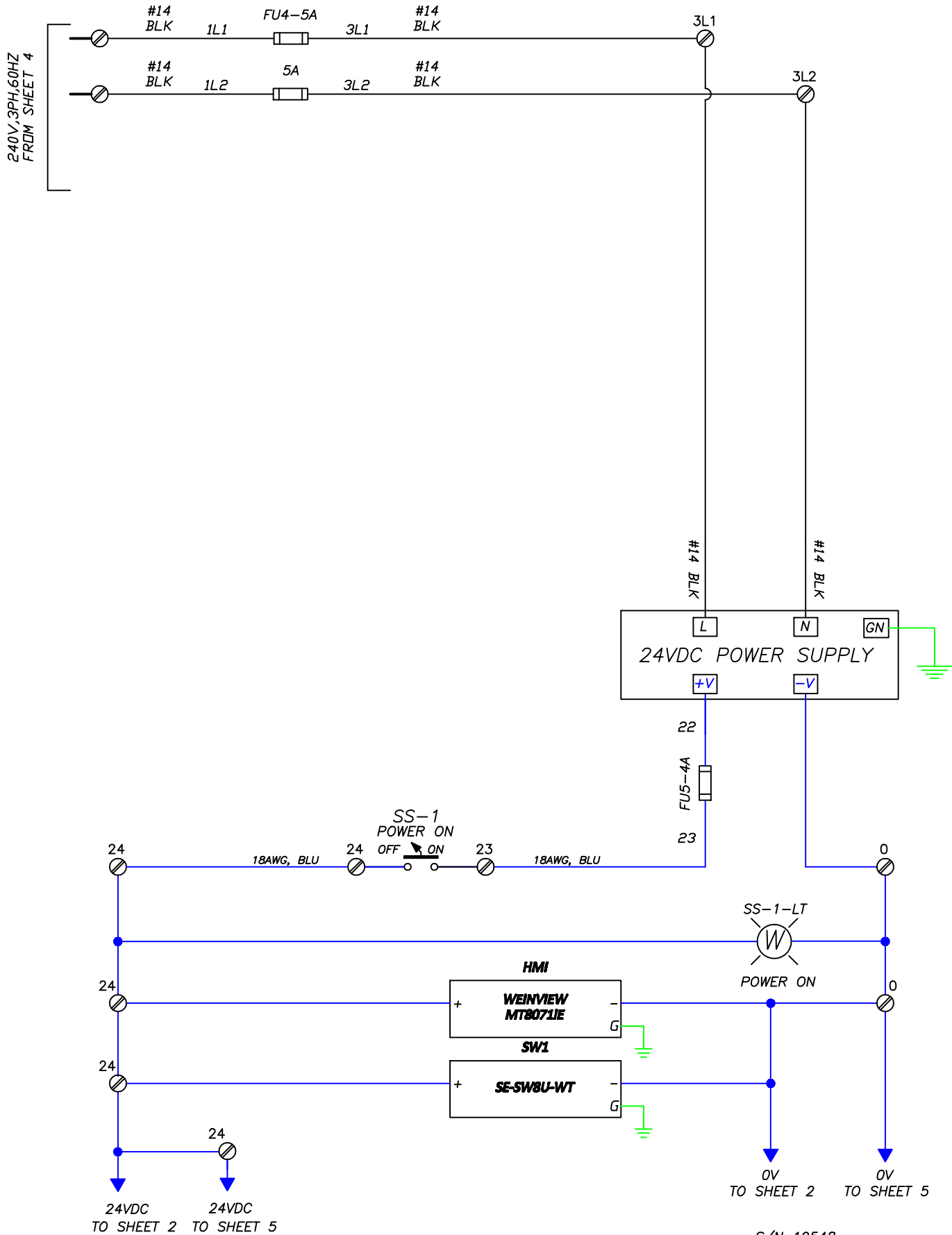
ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC	
OMRON NJ/MT8073IE	
DRAWN BY:	DWG NO.
Y MORERA	CC-003-99
DATE: 02/13/20	SCALE: NONE
SHEET 4 OF 21	

S/N 19548

24

0



02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: -	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV
DATE: 02/13/20	SCALE: NONE	SHEET 5 OF 21

24VDC BUS
FROM
SHEET 5

COM VDC BUS
FROM
SHEET 5

24

0



500

BL

BR

0

DC MOTOR

HOPPER'S BRUSH MOTOR

24

0

24VDC
TO SHEET 7

0V
TO SHEET 7

S/N 19548

02/13/20

PRIMARY VOLTAGE:	240VAC
SECONDARY VOLTAGE:	—

CONTROL VOLTAGE:
24 VDC

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC

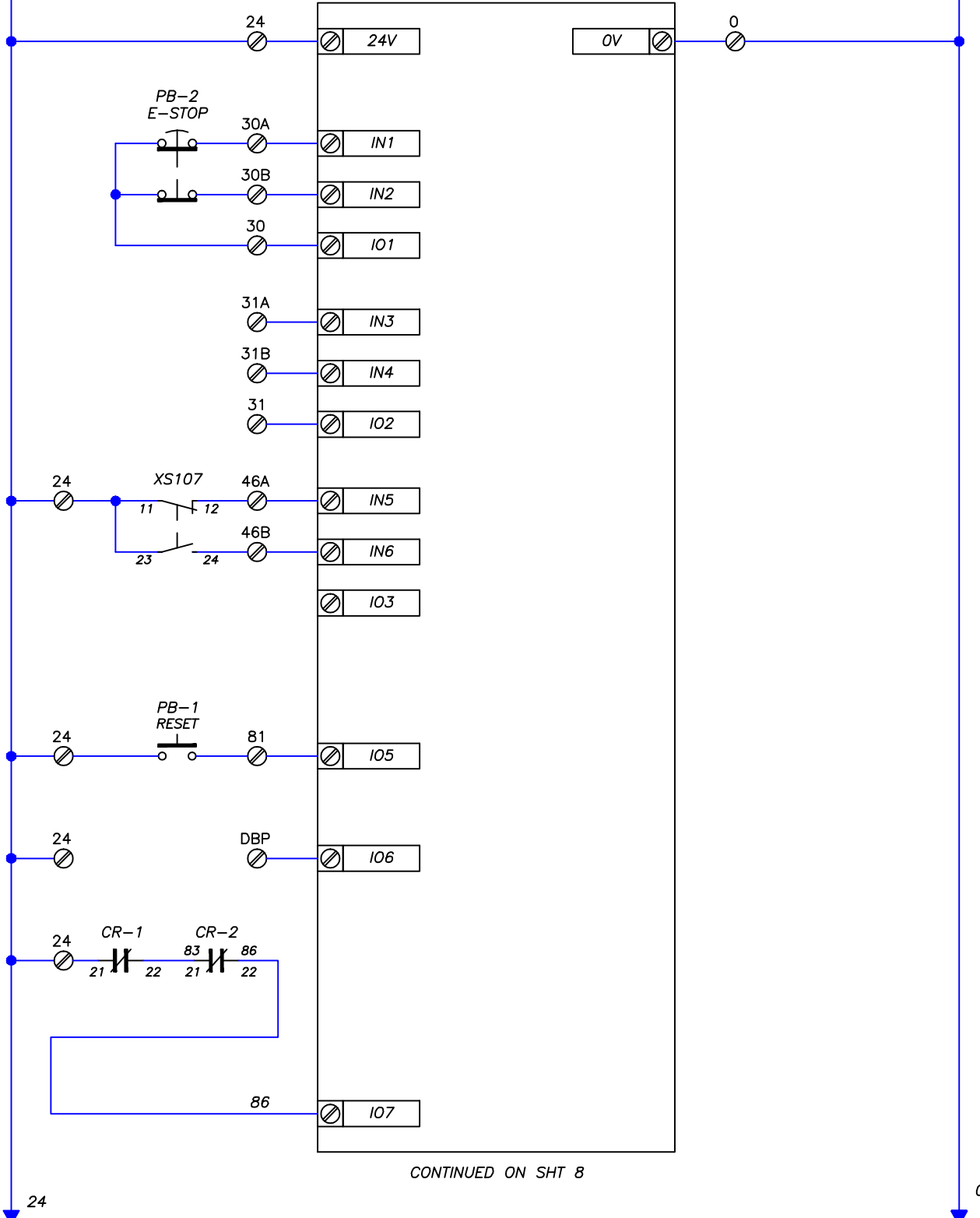
OMRON NJ/MT8073IE

DRAWN BY: Y MORERA	DWG. NO. CC-003-99	REV. 1
DATE: 02/13/20	SCALE: NONE	SHEET 6 OF 21

24VDC BUS
FROM
SHEET 6

COM VDC BUS
FROM
SHEET 6

SC1
PROGRAMMABLE SAFETY CONTROLLER



CONTINUED ON SHT 8

24VDC BUS
TO
SHEET 8

COM VDC BUS
TO
SHEET 8

S/N 19548

02/13/20

PRIMARY VOLTAGE:	240VAC
SECONDARY VOLTAGE:	-

CONTROL VOLTAGE:	24 VDC
------------------	--------

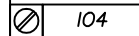
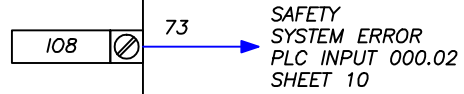
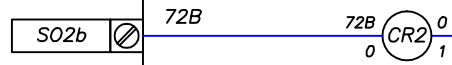
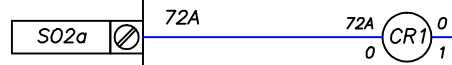
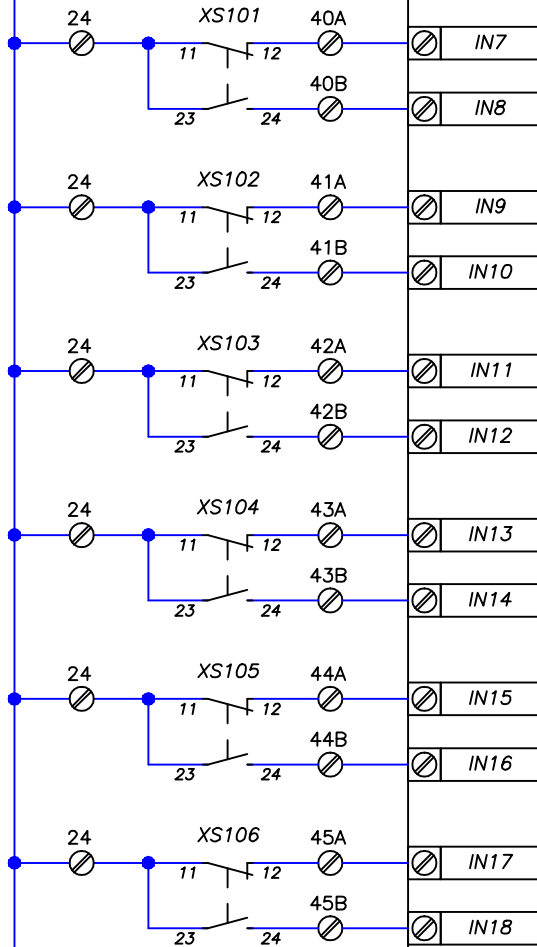
ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC			
OMRON NJ/MT8073IE			
DRAWN BY:	DWG NO.	REV	
Y MORERA	CC-003-99	1	
DATE: 02/13/20	SCALE: NONE	SHEET 7 OF 21	

24VDC BUS
FROM
SHEET 7

COM VDC BUS
FROM
SHEET 7

SC1 (CONTINUED)



24VDC BUS
TO
SHEET 9

COM VDC BUS
TO
SHEET 9

S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: -	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

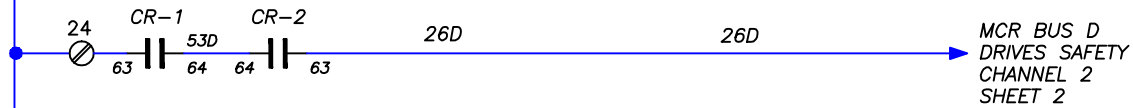
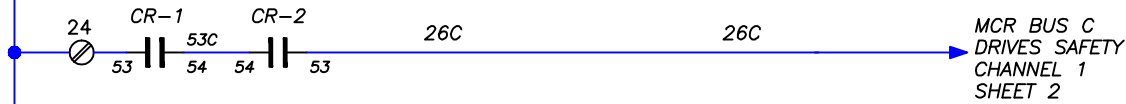
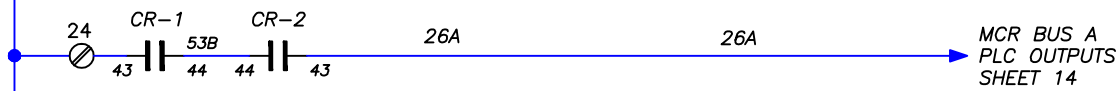
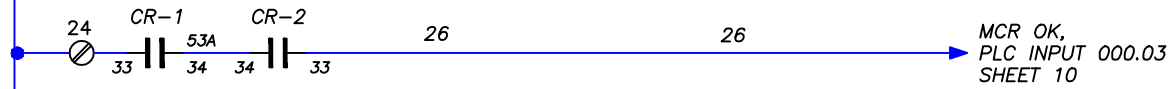
ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 8 OF 21

24VDC BUS
FROM
SHEET 8

COM VDC BUS
FROM
SHEET 8

PB-2
E-STOP

PB2-LT
30C (R) 0



24
24VDC BUS
TO
SHEET 10

0
COM VDC BUS
TO
SHEET 10

S/N 19548

02/13/20

PRIMARY VOLTAGE:	240VAC
SECONDARY VOLTAGE:	-

CONTROL VOLTAGE:
24 VDC

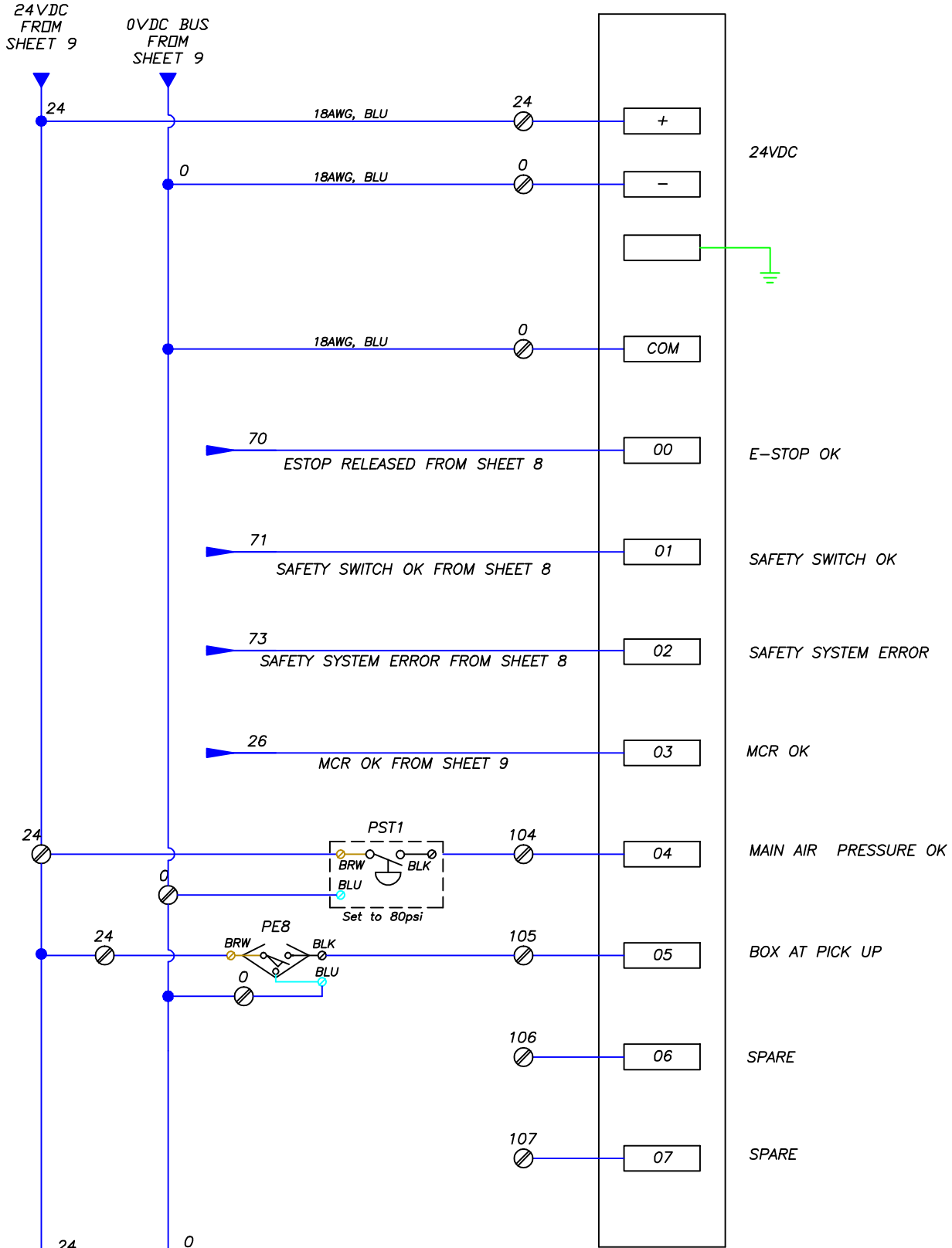
ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC

OMRON NJ/MT8073IE

DRAWN BY:	Y MORERA	DWG NO.:	CC-003-99	REV:	1
DATE:	02/13/20	SCALE:	NONE	SHEET:	9 OF 21

CPU OMRON NJ3011200
 RACK 0, SLOT 0
 PLC INPUT MODULE CJ1WID211



CONTINUED ON SHEET 11

S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: -	

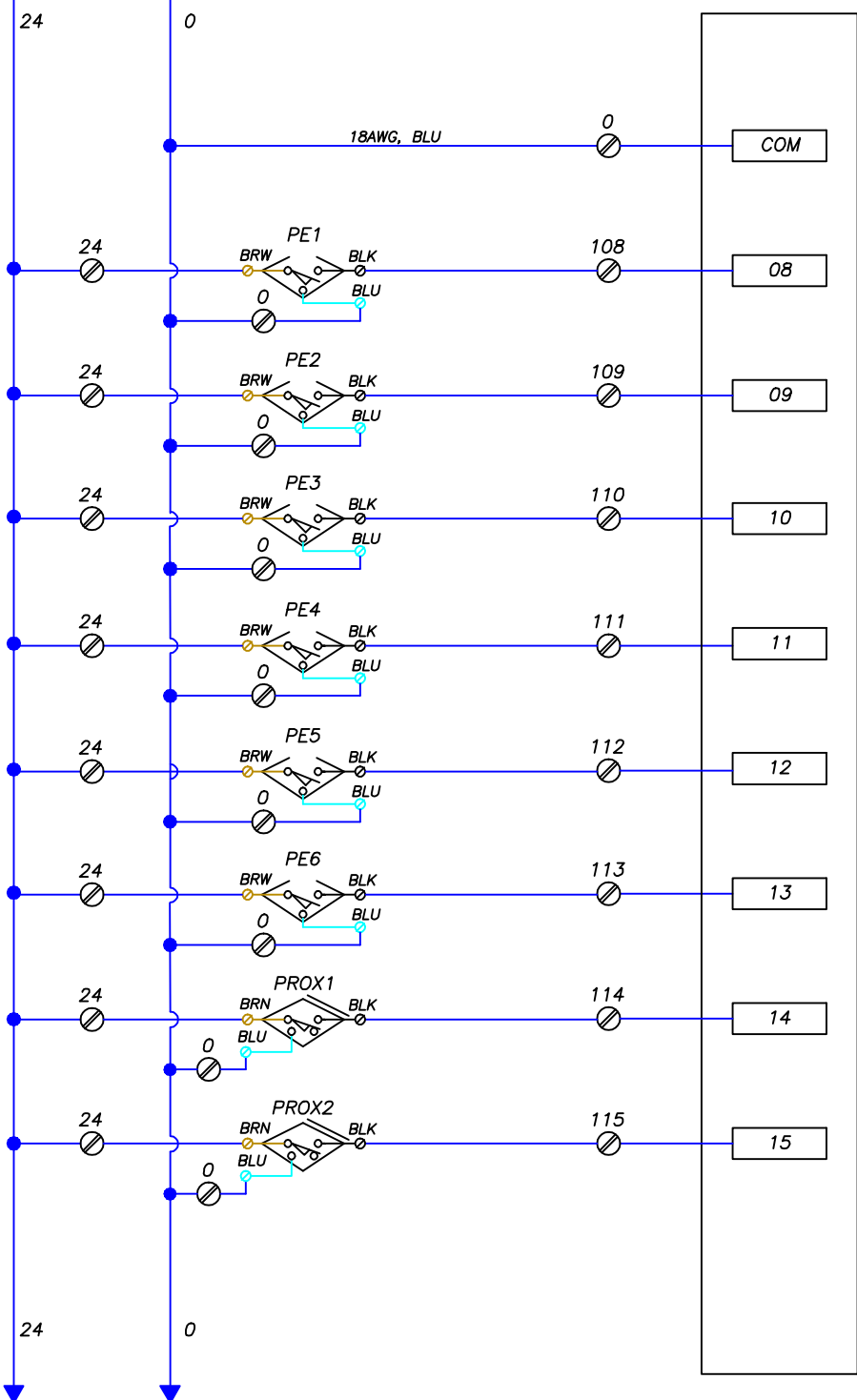
ENDFLEX
 Packaging Machinery, LLC
 4760 NW 128 Street
 Miami, Florida, 33054
 Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 10 OF 21

24VDC
FOR INPUTS
FROM
SHEET 10

0VDC BUS
FROM
SHEET 10

CPU OMRON NJ3011200
RACK 0, SLOT 0
PLC INPUT MODULE CJ1WID211



- COM
- 08 LOW HOPPER
- 09 BOX GOING TO TOP INSERTER
- 10 PRODUCT AT LOADING STATION
- 11 LOW PRODUCT
- 12 NO BLANK AT HOPPER END
- 13 BOX AT EXIT
- 14 PRODUCT TOP PUSHER HOME
- 15 PRODUCT TOP PUSHER DOWN

24VDC
FOR INPUTS
TO SHEET 12

0VDC BUS
TO
SHEET 12

S/N 19548

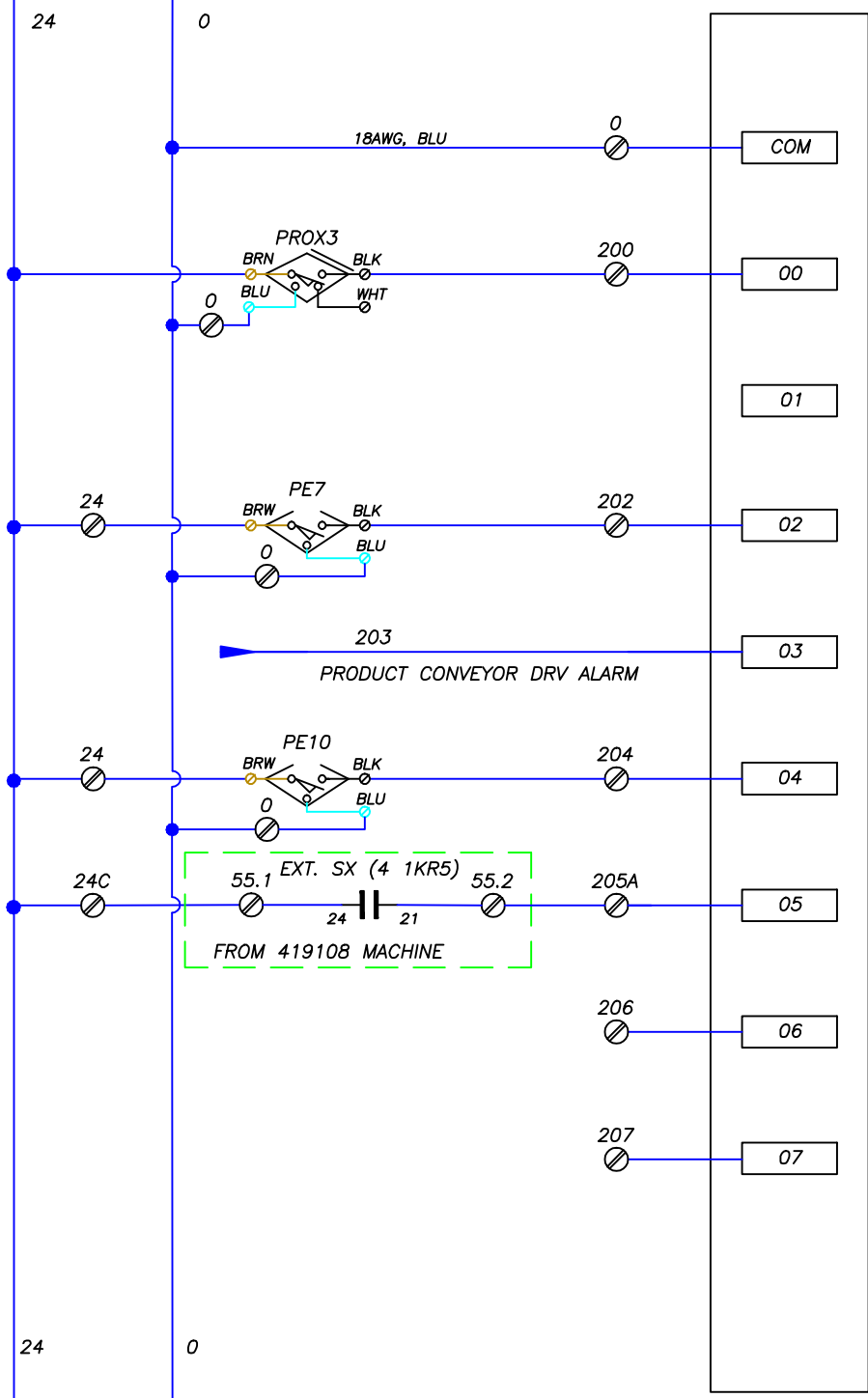
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC	
SECONDARY VOLTAGE: -			OMRON NJ/MT8073IE	DWG NO. CC-003-99
		DATE: 02/13/20	SCALE: NONE	SHEET 11 OF 21

24VDC
FOR INPUTS
FROM
SHEET 11

0VDC BUS
FROM
SHEET 11

CPU OMRON NJ3011200
RACK 0, SLOT 1
PLC INPUT MODULE CJ1WID211



ROTARY TABLE HOME POSITION

SPARE

LIP OPEN AT THE EXIT

PRODUCT CONVEYOR DRV ALARM

BOX AT LOADING STATION

FROM 419108 MACHINE

SPARE

SPARE

CONTINUED ON SHEET 13

S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: -	

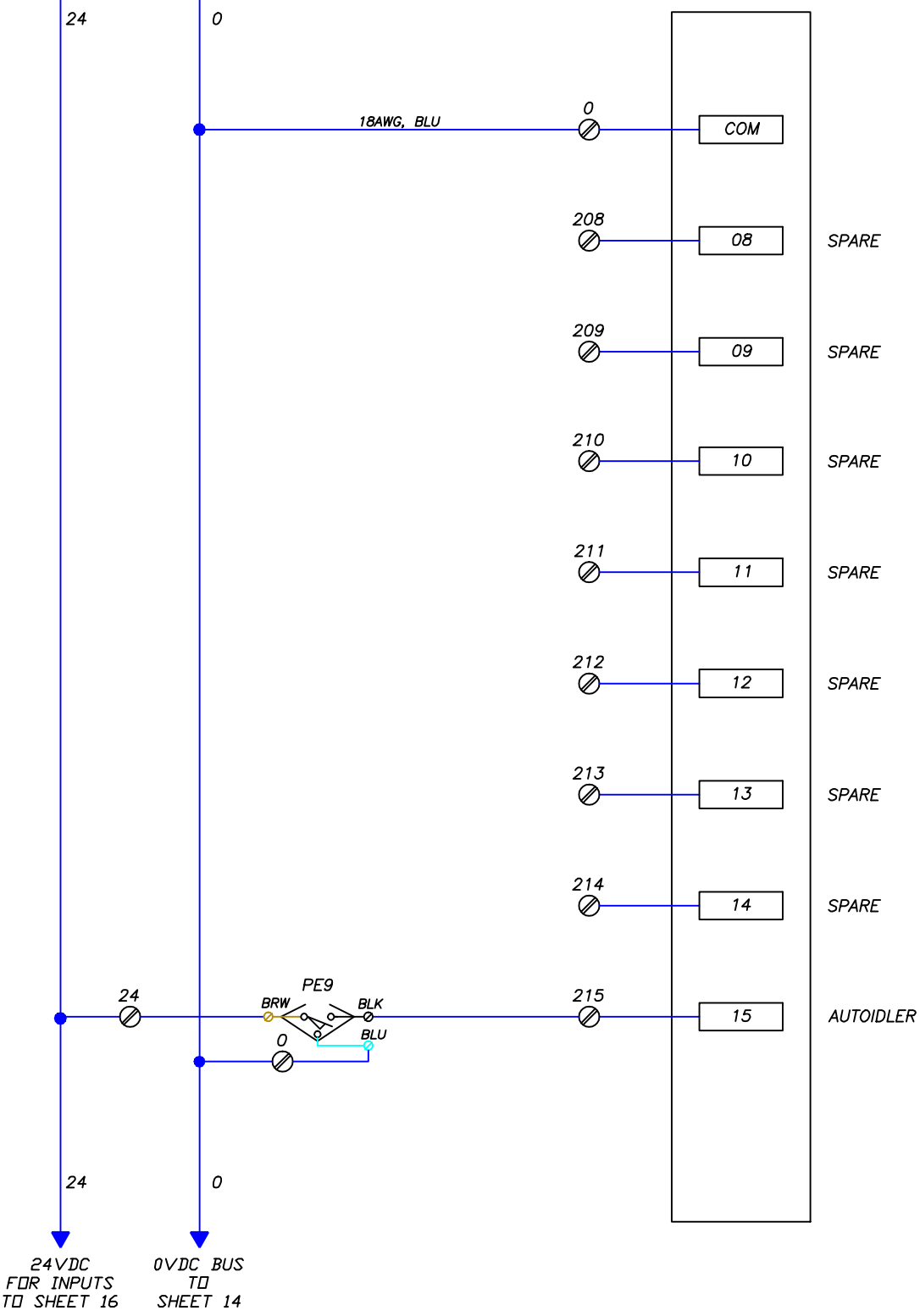
ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 12 OF 21

24VDC
FOR INPUTS
FROM
SHEET 12

0VDC BUS
FROM
SHEET 12

CPU OMRON NJ3011200
RACK 0, SLOT 1
PLC INPUT MODULE CJ1WID211



S/N 19548

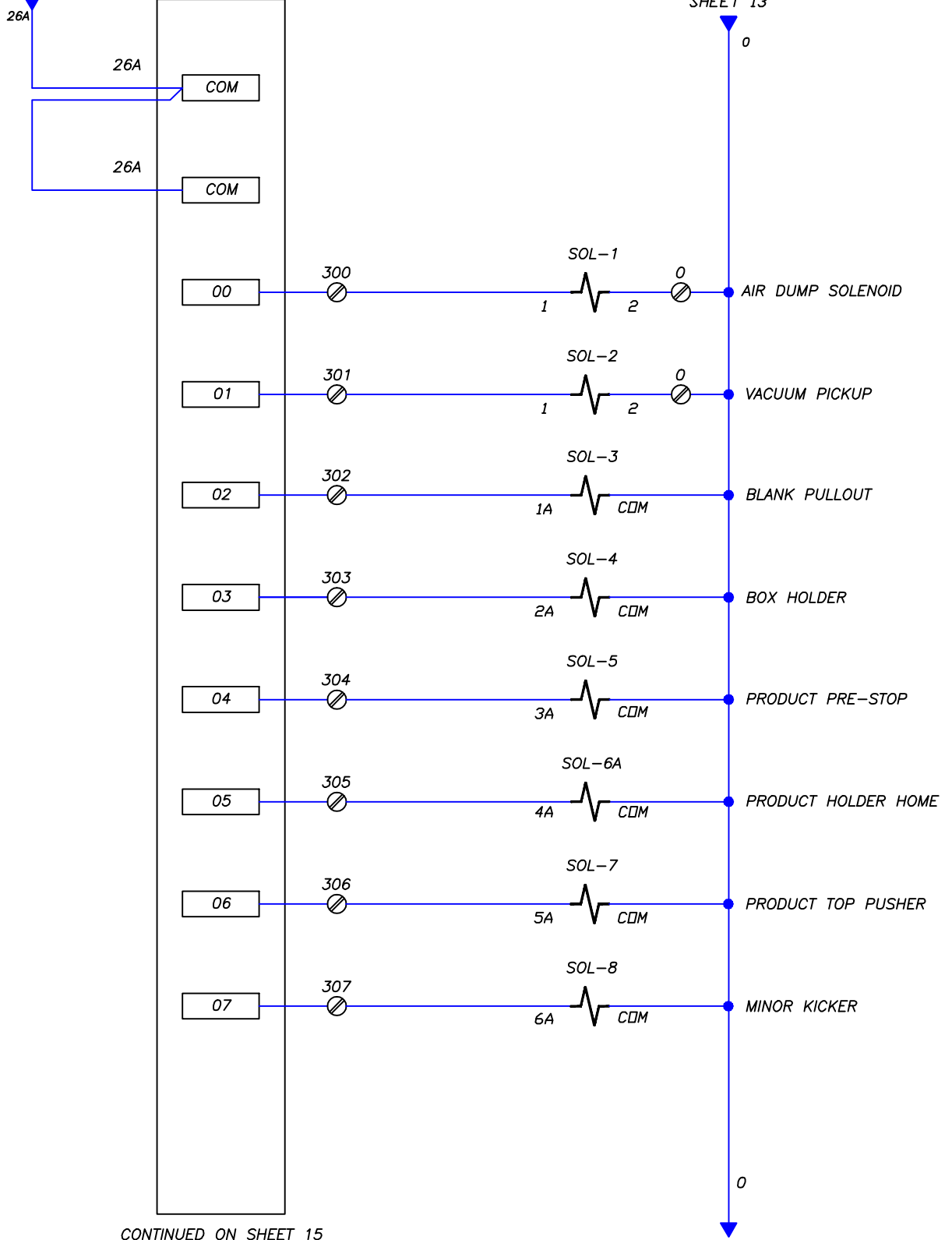
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC	
SECONDARY VOLTAGE: -			OMRON NJ/MT8073IE	DWG NO. CC-003-99
		DATE: 02/13/20	SCALE: NONE	SHEET 13 OF 21

CPU OMRON NJ3011200
 RACK 0, SLOT 2
 PLC OUTPUT
 MODULE CJ1WOC211

MCR BUS A
 FROM SHEET 9

0VDC BUS
 FROM
 SHEET 13



CONTINUED ON SHEET 15

0VDC BUS
 TO
 SHEET 14

S/N 19548

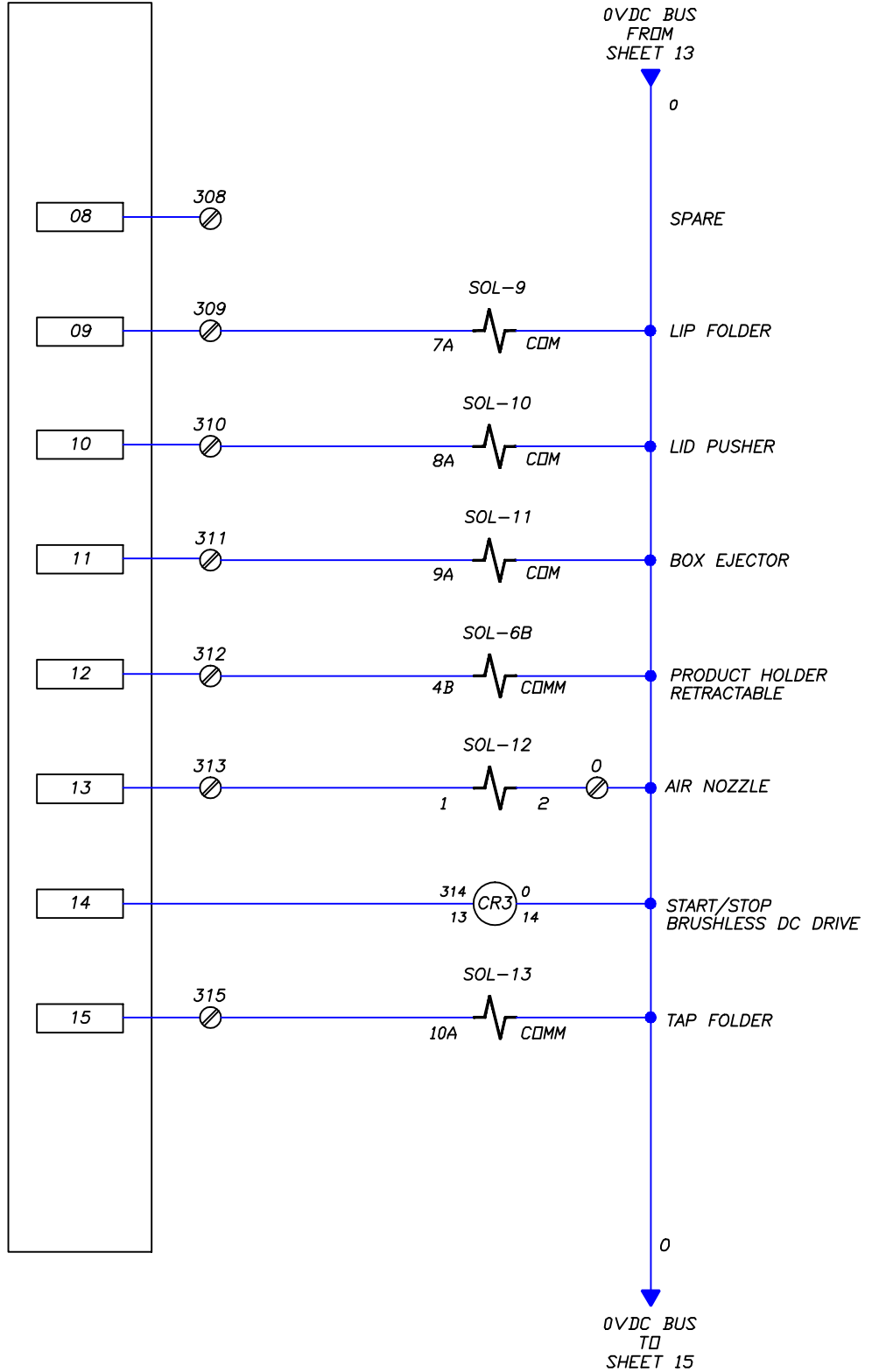
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
 Packaging Machinery, LLC
 4760 NW 128 Street
 Miami, Florida, 33054
 Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 14 OF 21

CPU OMRON NJ3011200
 RACK 0, SLOT 2
 PLC OUTPUT
 MODULE CJ1WOC211



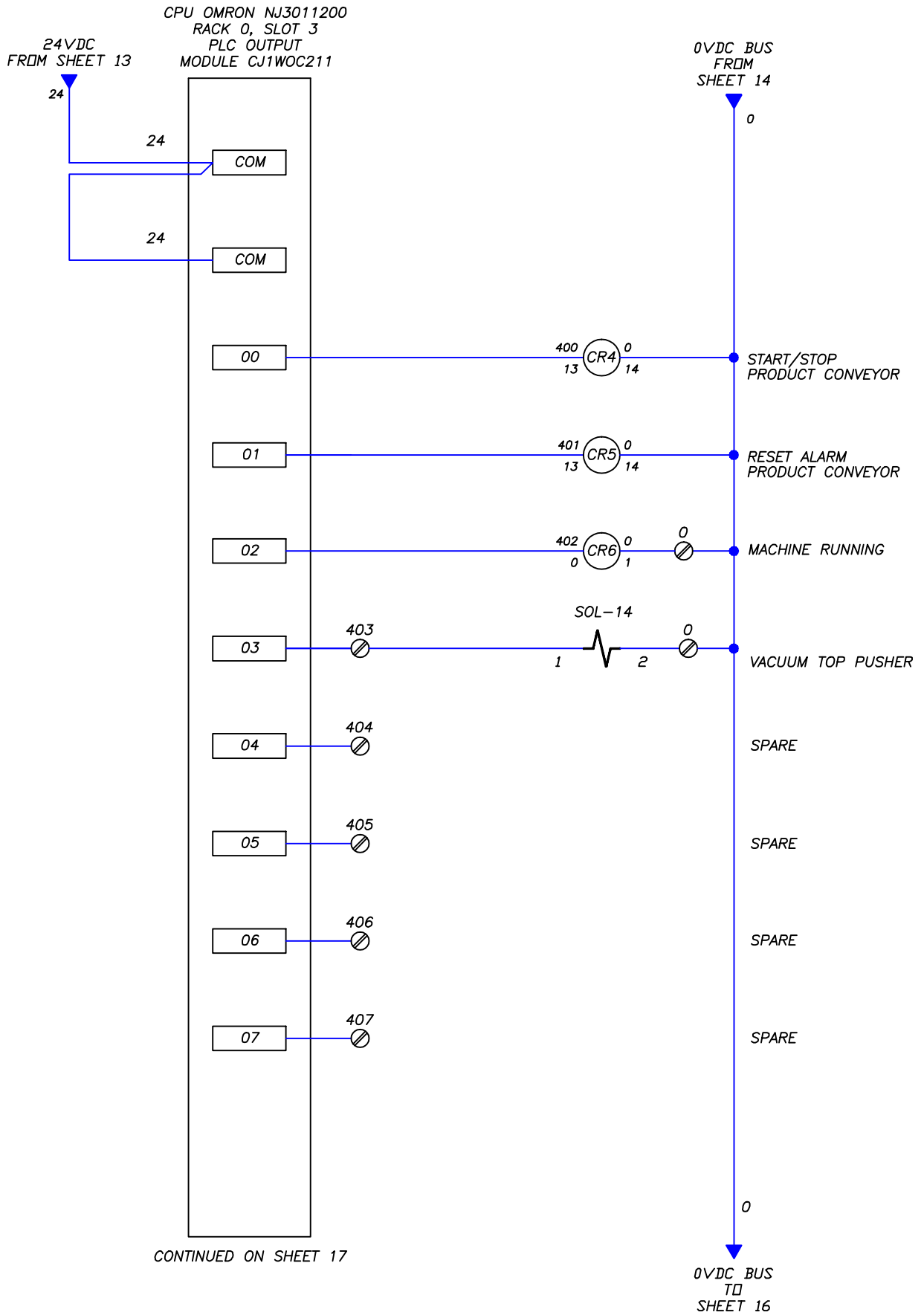
S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
 Packaging Machinery, LLC
 4760 NW 128 Street
 Miami, Florida, 33054
 Phone: (305) 622-4070

ELECTRICAL SCHEMATIC	
OMRON NJ/MT8073IE	
DRAWN BY: Y MORERA	DWG NO. CC-003-99
DATE: 02/13/20	SCALE: NONE
	SHEET 15 OF 21



CONTINUED ON SHEET 17

S/N 19548

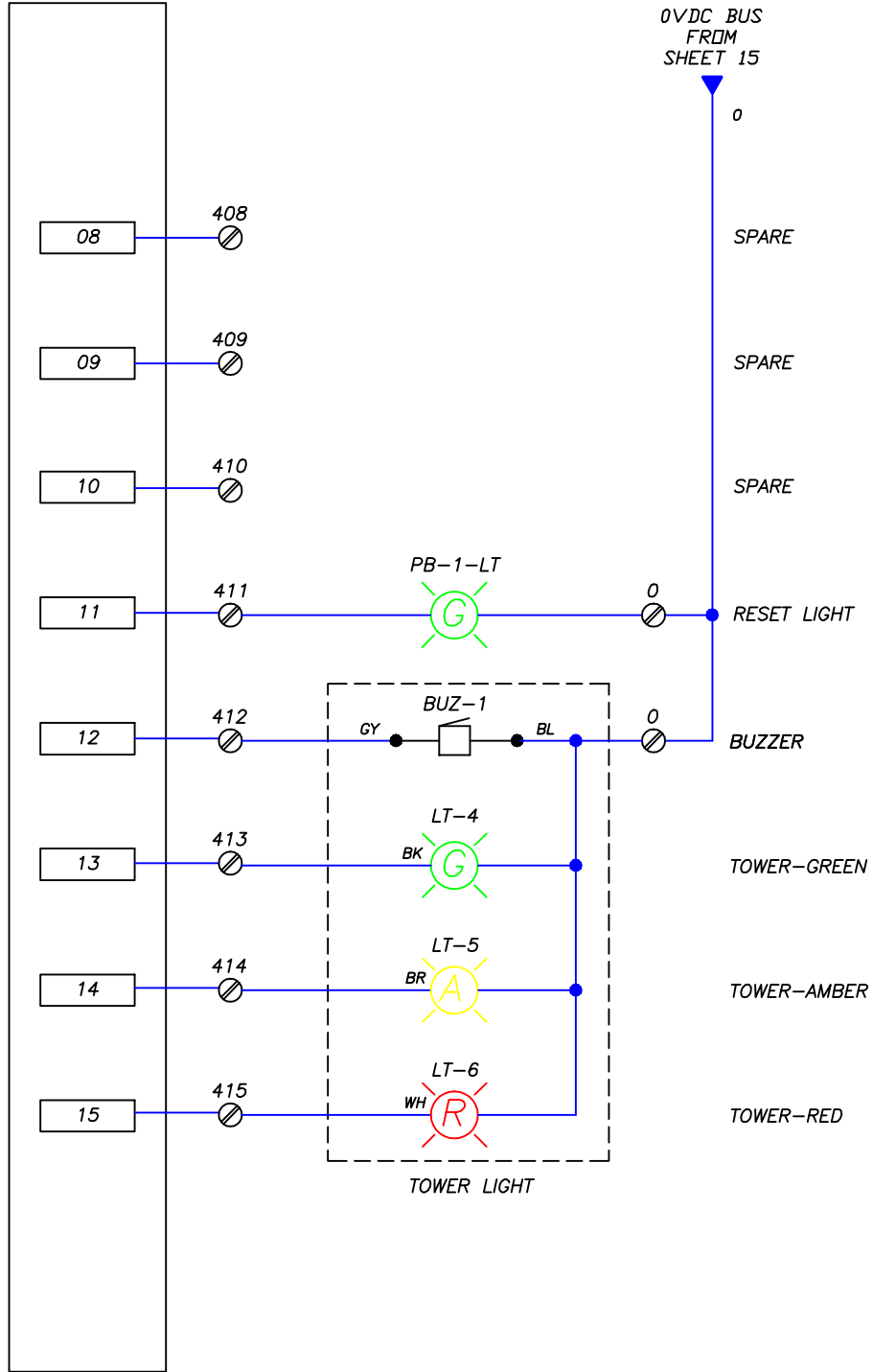
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 16 OF 21

CPU OMRON NJ3011200
 RACK 0, SLOT 3
 PLC OUTPUT
 MODULE CJ1WOC211



S/N 19548

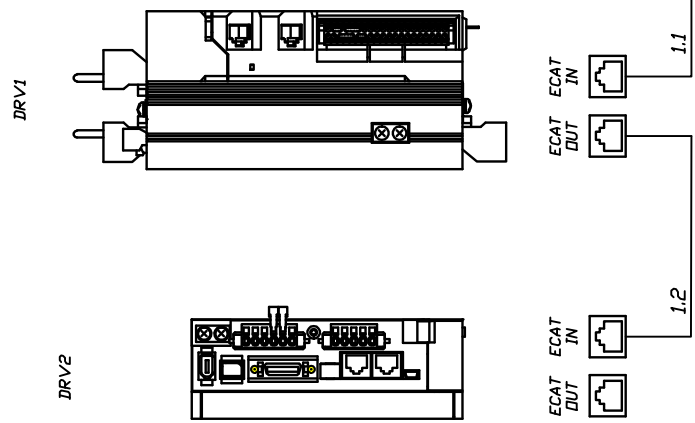
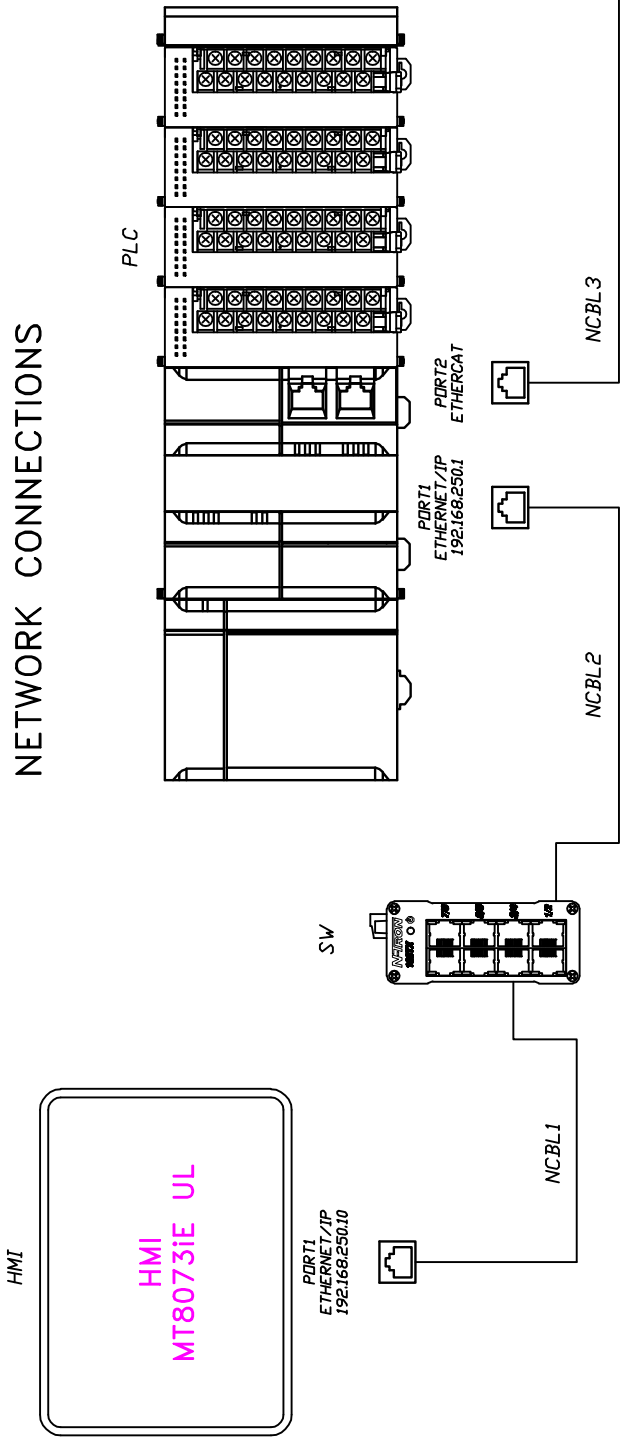
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
 Packaging Machinery, LLC
 4760 NW 128 Street
 Miami, Florida, 33054
 Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 17 OF 21

NETWORK CONNECTIONS



S/N 19548

02/13/20

PRIMARY VOLTAGE:	240VAC
SECONDARY VOLTAGE:	-

CONTROL VOLTAGE:	24 VDC
------------------	--------

ENDFLEX
Packaging Machinery, LLC
 4760 NW 128 Street
 Miami, Florida, 33054
 Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073iE		
DRAWN BY:	DWG NO.	REV
Y MORERA	CC-003-99	1
DATE: 02/13/20	SCALE: NONE	SHEET 18 OF 21

ITEM	QT	PART NUMBER	DESCRIPTION
DRV1	1	AA 1S 3K ENCBL 3M	OMRON 3m 1S Standard Encoder Cable
DRV1	1	AA 1S 3K PWRCBL 3M	OMRON 3M Standard Power Cable, 1S 3KW
DRV1	1	AA 1S DRV 30H	OMRON 1S ECAT SERVO DRIVE 3000W 200V
DRV1	1	AA 1S SRVMTR 3000W	Omron 3 kW,240V,3000rpm S2 1S Motor
DRV1	1	AA AP GBXR 50-1 3K	GEAR REDUCER, 50:1 RIGHT ANGLE FOR 3000W SERVO MOTOR
CR-1 -CR-2	2	AA BASE SAFE 4NO 1NC	SOCKET, DIN RAIL/SURFACE MOUNTING, SCREW TERMINALS, LED INDICATOR
SC1	1	AA BNXS	SAFETY CONTROLLER: EXPANDABLE; 26 INPUT; 2 OUTPUTS
CUBE	1	AA CUBE FRAME16	SKINTOP CUBE FRAME 16
CUBE	2	AA CUBE MOD40X40 SM	SKINTOP CUBE MODULE 40x40 small
ENCLOSURE	2	AA ENC RIT24X24X12	RT-WM242412NC RITTAL ENCLOSURE 24 X 24 X 12
DRV2	1	AA G5 0.4K ENCBL 5M	5M ENCODER CABLE FOR 400W OMRON SERVO DRIVE
DRV2	1	AA G5 0.4K PWRCBL 5M	5M POWER CABLE FOR 400W OMRON SERVO DRIVE
DRV2	1	AA G5 DRV 04H	OMRON G5 ECAT SERVO DRIVE 400W 200V
DRV2	1	AA GEARBX 8-1 0.4K	VRL-070B-8-K5-14BJ14..INLINE GEARBOX, 8:1 RATIO, KEYPED..OUTPUT SHAFT, 5 ARC-MINUTE..BACKLASH
DS1	1	AA HNDL L11-PY	PADLOCKABLE HANDLE -STANDARD ,RED & YELLOW,SPRECHER+SCHUH
CR-1 -CR-2	2	AA RELAY SAFE 4NO 1NC	SAFETY RELAY, PLUG-IN, 4PST-NO, DPST-NC, 6 A, FORCIBLY-GUIDED CONTACTS
DS1	1	AA SHAFT L11-S1	METAL OPERATING SHAFT
DRV2	1	AA SRVMTR 400W	OMRON SERVOMOTOR 400W,240V,3000rpm
ENCLOSURE	1	AAE-12C12	CONSOLE (DESK UNIT) 30 DEGREE INCLINE 12 X 12 X 9 w/o BACK PANEL
FU5	1	AA-FUSEHOLDERCC1P	1 POLE FUSE HOLDER W/LED, DIN, CC, 600 VAC, 30 AMP
FU3-FU4	2	AA-FUSEHOLDERCC2P	2 POLE FUSE HOLDER W/LED, DIN, CC, 600 VAC, 30 AMP
FU2	1	AA-FUSEHOLDERCC3P	3 POLE FUSE HOLDER W/LED, DIN, CC, 600 VAC, 30 AMP
PS1	1	AA-PS120W-24V	POWER SUPPLY 120 WATTS, 24 VDC OUTPUT, 100-240VAC INPUT, DIN RAIL MOUNTED
FU4	1	AD 4ACC	4A TIME DELAY FUSE, 600VAC, CC TYPE
FU4	2	AD 5ACC	5A TIME DELAY FUSE, 600VAC, CC TYPE
PE1-PE8 PROX3, PST1, TOWER LIGHT	11	AD 5MEUROST	M12 Q/D CABLE, STRAIGHT FEMALE, DC PVC, 4PIN/4WIRE, 5METERS
DIN RAIL	3	AD DIN RAIL	DIN RAIL 35mm X 1M LG. STEEL, SILVER
PROX3	1	AD IND PROX PNP NONC	INDUC PROX 18mm PNP 10mm RNG N.O./N.C. M12 Q/D FLUSH
PST1	1	AD PRES SW -14145	DIGITAL PRESSURE SWITCH / TRANSMITTER, -14.5 TO 145 PSI 2-PNP 4-20mA (NEED PROGRAMMING)
SW1	1	AD SE-SW8U-WT	EIGHT 10/100BASET RJ45 PORTS ETHERNET SWITCH
XS101-XS107	7	AD SSIDIS1NO1NC	SAFETY SWITCH TONGUE INTLK 31.5mm 90-DEG ADJ HEAD 1 N.O./1 N.C. PLAS(NEED MODIFICATIONS FOR ADVANCE
XS101-XS107	7	AD SSIDISKEY FLEX	ACTUATOR TONGUE FLEX MTG FOR SAFETY SW

S/N 19548

02/12/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC

OMRON NJ/MT8073IE

DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE:02/12/20	SCALE NONE	SHEET 19 OF 21

ITEM	QT	PART NUMBER	DESCRIPTION
WIRE DUCT	1	AD T1E-1030W	WIRE DUCT, 1.0 x 3.0 IN., 1/PK, WHT, THIN FINGER, 2M, WITH COVER
WIRE DUCT	1	AD T1E1530W preferred	WIRE DUCT, 1.5 x 3.0 IN., 1/PK, WHT, THIN FINGER, 2M, WITH COVER
FU3	2	AD-10AFASTCC	FAST ACTING FUSE, 10A, 600 VAC, 13/32 x 1-1/2" (AUTOMATION PART NUMBER HCLR10)
FU2	3	AD-30AFASTCC	FAST ACTING FUSE, 30A, 600 VAC, 13/32 x 1-1/2"
FU1	3	AD-JDL-30	FUSE - LOW-PEAK CLASS J T/D - 30A
TOWER LIGHT	1	BNTL50BADAPT	TOWER LIGHT BASE ADAPTER
TOWER LIGHT	1	BNTL50BKT	TOWER LIGHT BRACKET
TOWER LIGHT	1	BNTL50GYRQD	TOWER LIGHT, 24VDC, GREEN-YELLOW-RED, BUZZER
TOWER LIGHT	1	BNTL50PADAPT	TOWER LIGHT POLE ADAPTER
TOWER LIGHT	1	BNTL50POLE	TOWER LIGHT POLE
TOWER LIGHT	1	BNTL5PCBL	QUICK DISCONNECT CABLE 5 PIN 12MM STRAIGHT CONNECTOR
PB-2	1	C3 E-STOP LEGEND	ROUND YELLOW (2.4' DIA) EMERGENCY STOP
DB	1	CC1413	POWER DISTRIBUTION BLOCK COVER
PLC	2	CJ1WID211	OMRON CJ1 16 POINTS DC INPUTS MODULE
PLC	2	CJ1WOC211	OMRON CJ1 16 POINTS RELAY OUT MODULE
DB	1	MN1413400	POWER DISTRIBUTION BLOCK
HMI	1	MT8071iE	HUMAN MACHINE INTERFACE 7" COLOR TFT WITH MACHINE PROGRAM PRELOADED
PE1,PE3,PE4,PE7	4	MTGBKTLASERPE preferred	SMBQS18A MOUNTING BRACKET FOR LASER PHOTOCELL
SW1	3	NETWORK CABLE 3FT	NETWORKING PATCH CABLE BLUE 3FT
SW1	1	NETWORK CABLE 7FT	C5E-STPBL-S7: (Ethernet straight-through patch cable, overall foil shield, 7 ft. (2.1m), blue. RJ45 connectors, 350 MHz, 4-pair
PLC	1	NJ1011000	OMRON NJ1 CPU 2 AXIS ECAT EIP
PLC	1	NJPD3001	OMRON NJ5 POWER SUPPLY UNIT
PE2, PE6	2	PHQ12AB6FF30Q5	SENSOR Bipolar (NPN & PNP), Background Suppression (Fixed), 30mm, M12.
PE1,PE9	2	PHQS18AB6AF300Q5 preferred	PHOTOCELL NPN AND PNP, ADJUSTABLE FIELD BACKGROUND SUPPRESSION
PE7	1	PHQS18VP6LAFQ5	PHOTOCELL PNP, LASER ADJUSTABLE FIELD
PB-4,PE5	2	PHQS18VP6LLPQ5	BANNER PHOTOCELL LASER RETRO REFLECTIVE
PB-3,PE8	2	PHQ4XTBLAF300-Q8	Laser Adjustable Field, 1 PNP/NPN w300 mm, M12.
PROX1, PROX2	2	REED SW BRACKET	REED SWITCH BRACKET
PROX1, PROX2	2	REED SWITCH	REED SWITCH, 3 m WIRE, PNP, 24 VDC, N.O.
SS-1	1	SIE 2POS SS WH	SELECTOR SWITCH OPERATOR, 22mm, METAL, WHITE, MINTND, 2-POS
SS-1 ,PB-1 - PB-2	3	SIE BLK COLLAR	METALLIC HOLDER , 3 MODULES
PB-1	1	SIE BLK LED24 BLU	LED MODULE 6-24V AC/DC BLUE
PB-2	1	SIE BLK LED24 RD	LED MODULE 6-24V AC/DC RED
SS-1	1	SIE BLK LED24 WH	LED MODULE 6-24V AC/DC WHITE
PB-2	2	SIE BLK NC	NORMALLY CLOSED CONTACT BLOCK

S/N 19548

02/12/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: -	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC

OMRON NJ/MT8073iE

DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/12/20	SCALE: NONE	SHEET 20 OF 21

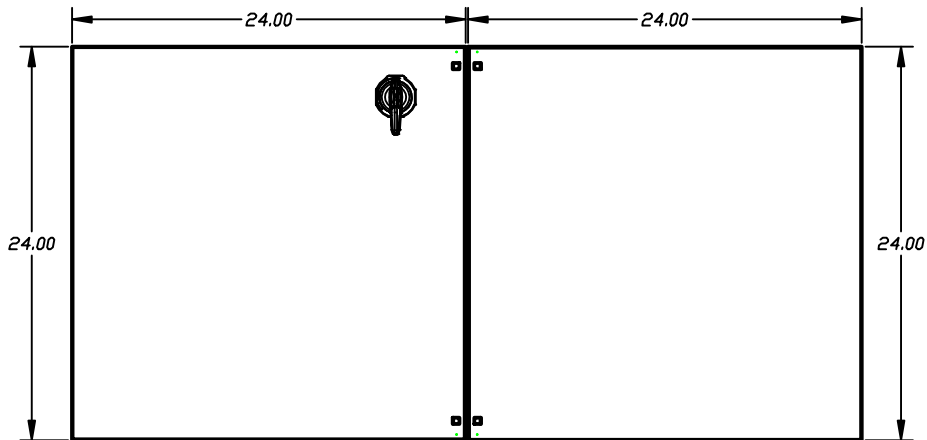
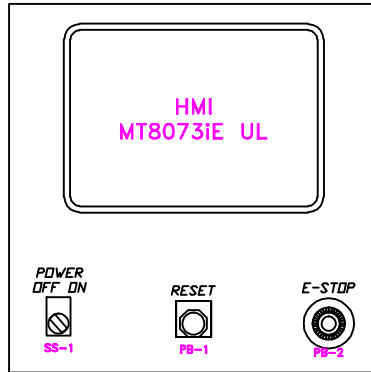
ITEM	QT	PART NUMBER	DESCRIPTION
SS-1 ,PB-1 - PB-2	3	SIE BLK NO	NORMALLY OPEN CONTACT BLOCK
PB-1	1	SIE BLUEPB	PUSHBUTTON MOM ILLUMINATED,METAL, BLUE
PB-2	1	SIE E-STOP	MAINTAINED PUSH BUTTON ILLUMINATED,24VDC LED RD, MUSHROOM CAP RED 60mm
SS-1 - PB-1	2	SIE LABEL HOLDER	LABEL HOLDER, FRAME BLACK SQUARE FOR LABELING PLATE
SS-1	1	SIE ON OFF LP	LEGEND PLATE BLACK 'OFF ON'
PB-1	1	SIE RESET LP	LEGEND PLATE 'RESET'
DS1	1	SWL10-NJ030P3	FUSED DISCONNECT SWITCH 30 AMP. SPRECHER+SCHUH
TERMINAL BLOCK	20	TB249-116	WAGO SCREWLESS END STOP FOR DIN 35 RAIL (PACK 25)
TERMINAL BLOCK	25	TJ2002-1201	TERMINAL BLOCK 22 ... 12 AWG, 800V, 20AMP, 5.2mm WIDTH
TERMINAL BLOCK	5	TJ2002-1207	TERMINAL BLOCK 22 ... 12 AWG GROUND (EARTH)
TERMINAL BLOCK	5	TJ2002-1291	TERMINAL BLOCK END AND INTERMEDIATE PLATE GRAY
TERMINAL BLOCK	60	TJ2002-2231	DOUBLE DECK TERMINAL BLOCK 22 ... 12 AWG, 800V, 20AMP, 5.2mm WIDTH
TERMINAL BLOCK	7	TJ2002-2291	DOUBLE DECK TERMINAL BLOCK END AND INTERMEDIATE PLATE GRAY
TERMINAL BLOCK	2	TJ2002-410	PUSH-IN TYPE JUMPER BAR
DRV3	1	BRUSHED DC MOTOR	DC Gearmotor 24VDC, 1.3Amps, 13W, 91rpm.

S/N 19548

02/12/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC	
SECONDARY VOLTAGE: —			OMRON NJ/MT8073IE	DRAWN BY: Y MORERA DATE: 02/12/20

HMI ENCLOSURE

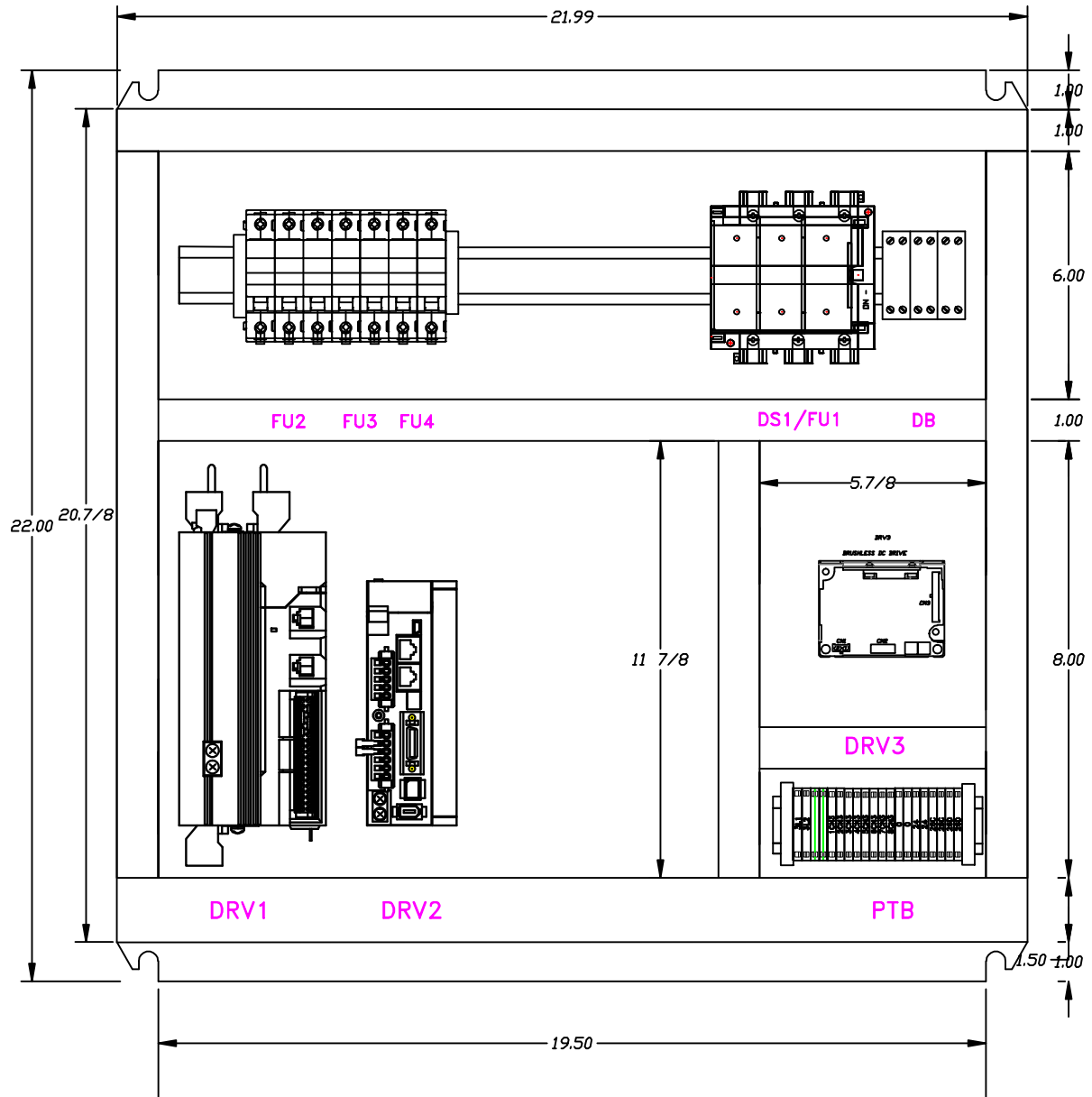


S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC	
SECONDARY VOLTAGE: —			OMRON NJ/MT8073IE	DWG NO. CC-003-99
		DATE: 02/13/20	SCALE: NONE	SHEET 1 OF 4

POWER ENCLOSURE



S/N 19548

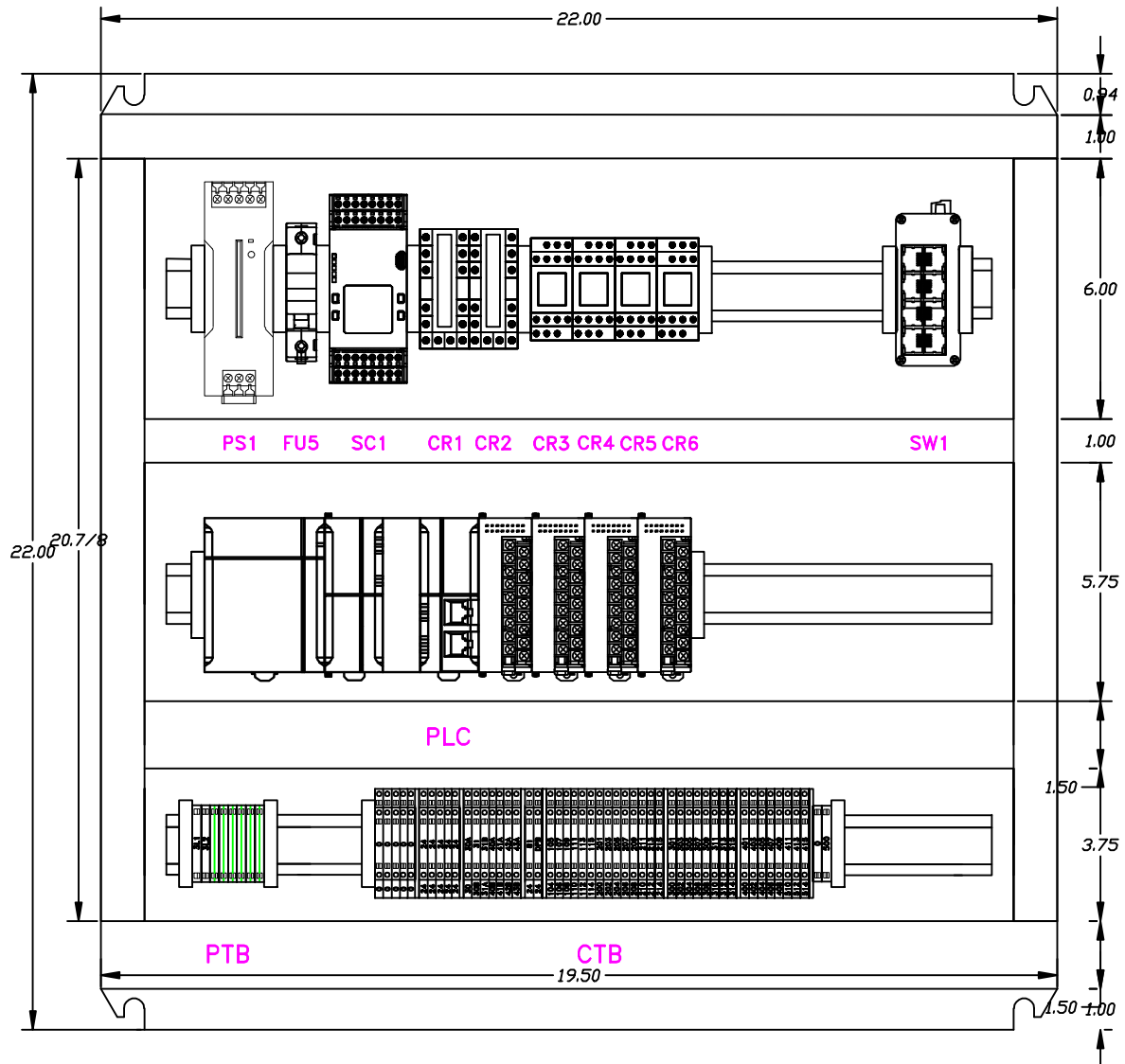
02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC
SECONDARY VOLTAGE: —	

ENDFLEX
Packaging Machinery, LLC
4760 NW 128 Street
Miami, Florida, 33054
Phone: (305) 622-4070

ELECTRICAL SCHEMATIC		
OMRON NJ/MT8073IE		
DRAWN BY: Y MORERA	DWG NO. CC-003-99	REV 1
DATE: 02/13/20	SCALE: NONE	SHEET 3 OF 4

CONTROL ENCLOSURE



S/N 19548

02/13/20

PRIMARY VOLTAGE: 240VAC	CONTROL VOLTAGE: 24 VDC	ENDFLEX Packaging Machinery, LLC 4760 NW 128 Street Miami, Florida, 33054 Phone: (305) 622-4070	ELECTRICAL SCHEMATIC OMRON NJ/MT8073IE	
SECONDARY VOLTAGE: -			DRAWN BY: Y MORERA	DWG NO. CC-003-99
		DATE: 02/13/20	SCALE: NONE	SHEET 4 OF 4