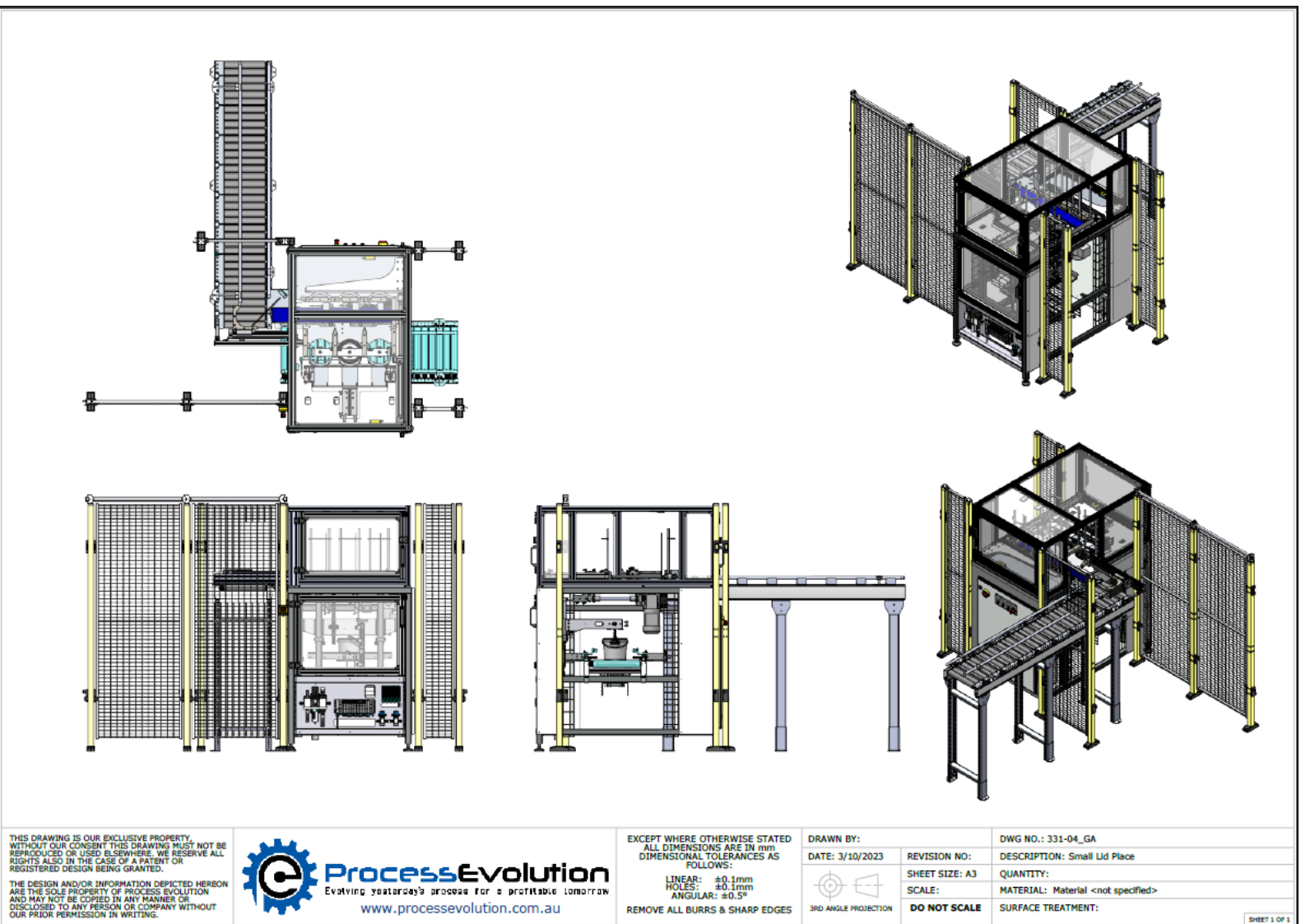
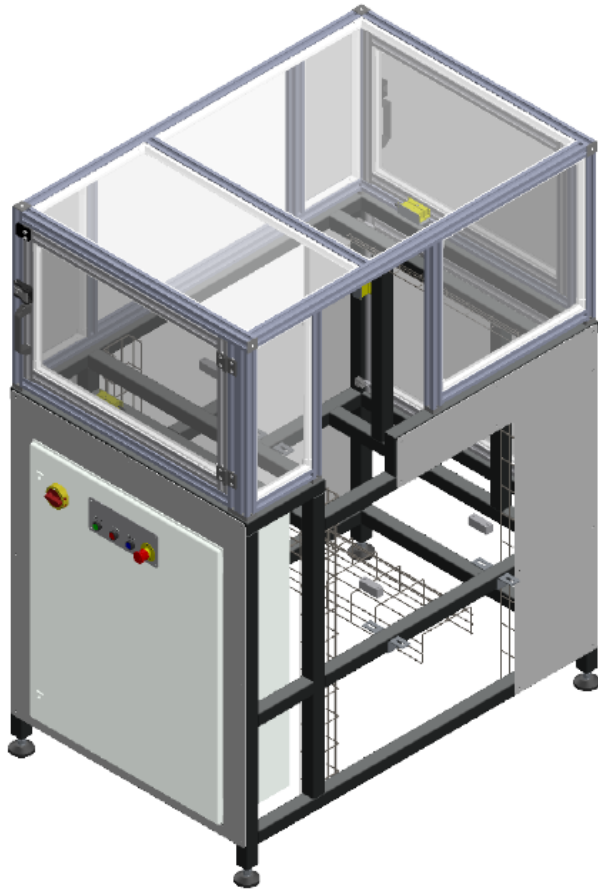


GA Drawings

Small Lid Pick & Place

Main Assembly





ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-01-21	Ball Lock Mount	ProEvo - CM	2
2	331-04-01-29	Side Guide Spacer	ProEvo - CM	4
3	331-04-01-01	Frame	ProEvo - Fab	1
4	331-03-02-01	Conveyor Mounting Clamp	ProEvo - SM	4
5	331-04-01-05	Cover Panel - RHS	ProEvo - SM	1
6	331-04-01-06	Cover Panel - Front	ProEvo - SM	1
7	331-04-01-07	Cover Panel Bracket - LHS Rear Low	ProEvo - SM	1
8	331-04-01-08	Cover Panel Bracket - LHS Front Low	ProEvo - SM	1
9	331-04-01-30	Safety Switch Mounting Bracket - Extrusion	ProEvo - SM	2
10	331-04-01-31	Safety Switch Mounting Bracket - RHS	ProEvo - SM	1
11	ProEvo Pushbutton Faceplate	ProEvo Pushbutton Faceplate	Mallards	1
12	oka_ku_ik10	Isolator Switch	APS Industrial	1
13	Axelent - 0111	X-Tray U 120x60	Axelent	3
14	Axelent - 0122	Wire Tray - 200x100	Axelent	1
15	Axelent - 1154	X-Tray Mini 40x32	Axelent	1
16	AMXS-MKT_BT1 Comtronic	Safety Switch - Non Contact	Balluff	3
17	BPS.30	Ball-shaped door lock	Elesa & Ganter	2
18	E2 AC-DXBC1002	Emergency Stop Push Button	Leuze	1
19	VE TF32A5102	Emergency Stop Label	Leuze	1
20	331-04-01-09	Window - Front	ProEvo - PR	1
21	331-04-01-12	Window - Side Small	ProEvo - PR	3
22	331-04-01-14	Window - Side Large	ProEvo - PR	1
23	331-04-01-18	Window - Top Rear	ProEvo - PR	1
24	331-04-01-20	Window - Rear Low	ProEvo - PR	1
25	331-04-01-24	Window - Rear Upper	ProEvo - PR	1
26	LVR8020100SSS	Machine Feet	Richmond Castors	4
27	AE 1180.500	Electrical Enclosure	Rittal	1
28	331-04-01-02	Extrusion Frame	Robotunits	1
29	331-04-01-03	Front Door Extrusion	Robotunits	1
30	331-04-01-04	Rear Lower Door Extrusion	Robotunits	1
31	331-04-01-10	Panel Profile - Front	Robotunits	1
32	331-04-01-11	Panel Profile - RHS Front	Robotunits	3
33	331-04-01-13	Panel Profile	Robotunits	1
34	331-04-01-15	Panel Profile - Top Front	Robotunits	1
35	331-04-01-16	Window - Top Front	Robotunits	1
36	331-04-01-17	Panel Profile - Top Rear	Robotunits	1
37	331-04-01-19	Panel Profile - Rear Low	Robotunits	1
38	331-04-01-22	Rear Upper Door Extrusion	Robotunits	1
39	331-04-01-23	Panel Profile - Rear Hi	Robotunits	1
40	CAN 4501	Corner Piece	Robotunits	36
41	CAP 4041	End Cap	Robotunits	16
42	DOR 4501	Handle	Robotunits	3
43	DOR 4511	Hinge	Robotunits	6
44	DOR 4553	Door Latch	Robotunits	2
45	DOR 4555	Door Stop	Robotunits	3
46	FAS 4049	Surface fastener	Robotunits	8
47	M22FP-MSF11E30	22mm Pushbutton Momentary Blue Illuminated Blue	Switches Plus	3

Frame

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DATE: 20/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-01

DESCRIPTION: Frame

QUANTITY:

MATERIAL: Material <not specified>

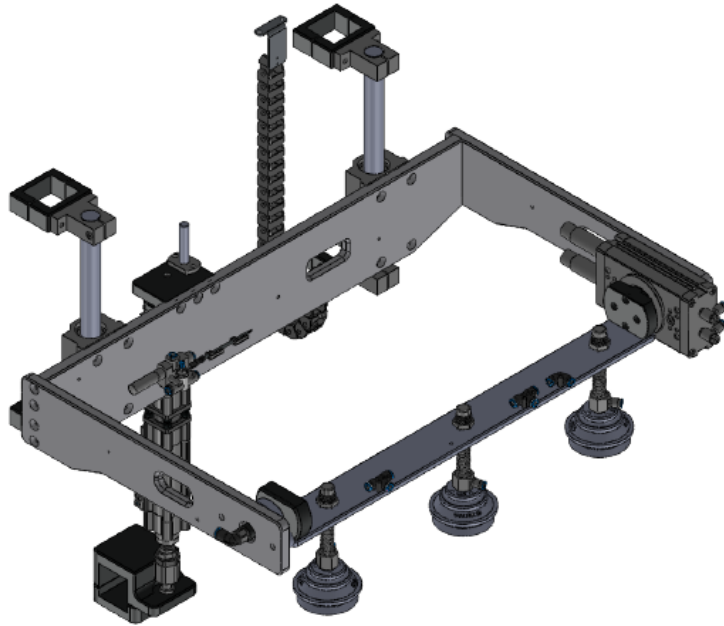
SURFACE TREATMENT:

SHEET 1 OF 1



Process Evolution

GA Drawings



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-02-01	Vacuum Plate	ProEvo - CM	1
2	331-04-02-02	Spindle Mount	ProEvo - CM	1
3	331-04-02-03	Air Distributor Spindle	ProEvo - CM	1
4	331-04-02-04	Side Plate	ProEvo - CM	1
5	331-04-02-05	Side Plate - Rotate Cylinder Mount	ProEvo - CM	1
6	331-04-02-06	Vacuum Back Plate	ProEvo - CM	1
7	331-04-02-08	RHS Clamp	ProEvo - CM	4
8	331-04-02-09	RHS Clamp - Mount Block	ProEvo - CM	4
9	331-04-02-10	RHS Clamp - Cylinder Mount	ProEvo - CM	1
10	331-04-02-11	Cylinder Push Block	ProEvo - CM	1
11	331-04-02-12	Anti-rotate Block	ProEvo - CM	1
12	331-04-02-15	RHS Cylinder Mount Clamp	ProEvo - CM	1
13	331-04-02-14	Energy Chain Bracket - Fixed	ProEvo - SM	1
14	Cable	Reed Switch Cable	Festo	6
15	DPNC-32	Multi-position kit	Festo	1
16	DRRD-32-180-FH-Y9A	Rotary cylinder	Festo	1
17	DSBC-32-50-PPVA-N3	Square cylinder	Festo	1
18	DSBC-32-70-PPVA-N3	Square Cylinder	Festo	1
19	FK-M10X125	Self-aligning rod coupler	Festo	1
20	GR-QS-6	Flow Control 6mm	Festo	1
21	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	2
22	NEBU-M8G3-K-5-LE3	Connecting Cable - M8 3Pin 5m Open End	Festo	1
23	Plug	Reed Switch Plug	Festo	6
24	QS-G1_8-6-1	Push-In 1/8" 6mm Internal Hex	Festo	4
25	QSL-6	L - Fitting 6mm	Festo	1
26	QSRL-G1_4-8	Fitting - Rotary 1/4" 8mm	Festo	1
27	QST-6	T-Fitting 6mm	Festo	2
28	QSV-8-6	Y-Fitting 8 - 6 (x2)	Festo	1
29	Reed Switch	Reed Switch	Festo	6
30	VFOF-LE-BAH-G18-Q6	One-way Flow Control 1/8" 6mm	Festo	4
31	VN-10-H-T4-PQ2-VQ2-02-P	Vac Gen with Vac Sensor	Festo	1
32	Igus - 0' 48m E08_20_038_0_080_20_12PZ_A3_1 (24Links)	Energy chain	Igus	1
33	L1230	Vacuum compensator	Pnuetech	3
34	ZFB200-06	Vacuum Filter	SMC	1
35	331-04-02-07	25mm Linear Shaft	Statewide	2
36	331-04-02-13	12mm Linear Shaft	Statewide	1
37	SH25A	Shaft support - 25mm	Statewide	4
38	SMA25WUU	Linear Slide	Statewide	2
39	SMT12UU	Linear Bush - 12mm	Statewide	1
40	UCFL204D1	Flange bearing	Statewide	1
41	VB75-12F	Vacuum Cup - Lid De-Nester	VMECA	3

Vacuum Pick & Place

GA Drawings

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DRAWN BY:

DATE: 21/02/2023

REVISION NO:

DWG NO.: 331-04-02

DESCRIPTION:

SHEET SIZE: A3

QUANTITY:

SCALE:

MATERIAL:

DO NOT SCALE

SURFACE TREATMENT:



3RD ANGLE PROJECTION

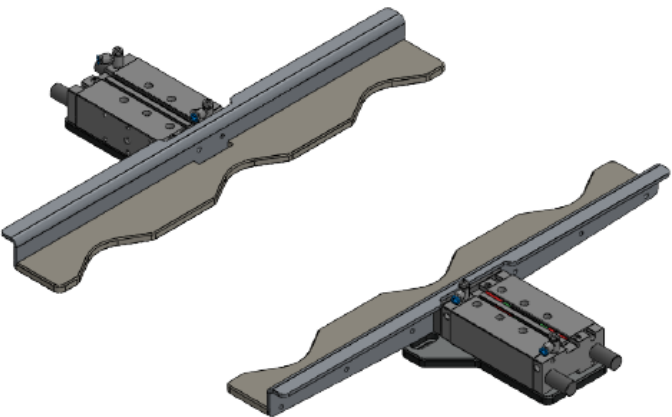
SHEET 1 OF 1



GA Drawings

Pail Centering Clamp

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-03-01	Base Plate	ProEvo - CM	2
2	331-04-03-03	Clamp Block	ProEvo - CM	2
3	331-04-03-02	Face Plate	ProEvo - SM	2
4	Cable	Reed Switch Cable	Festo	3
5	DFM-32-100-B-PPV-A-GF	Guided Cylinder	Festo	2
6	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	4
7	Plug	Reed Switch Plug	Festo	3
8	Reed Switch	Reed Switch	Festo	3



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DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-03

DESCRIPTION: Conveyor Centering

QUANTITY:

MATERIAL: Material <not specified>

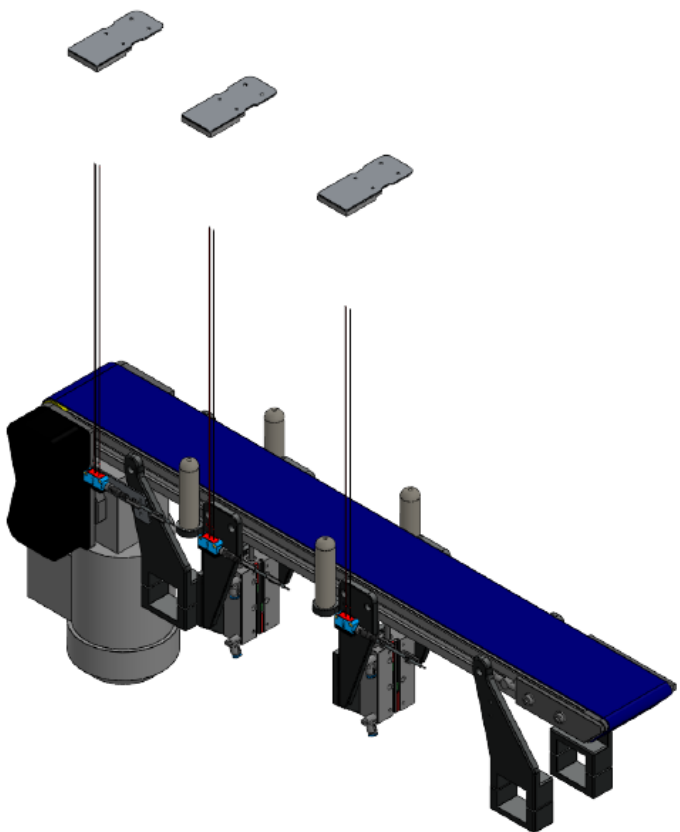
SURFACE TREATMENT:

SHEET 1 OF 1



GA Drawings

Cross Conveyor



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-04-01	Gate Stop Base Plate	ProEvo - CM	2
2	331-04-04-02	Gate Stop Side A	ProEvo - CM	2
3	331-04-04-03	Gate Stop Side B	ProEvo - CM	2
4	331-04-04-04	Gate Stop Plate	ProEvo - CM	2
5	331-04-04-05	Gate Stop Post	ProEvo - CM	4
6	331-04-04-06	RHS Clamp - Conveyor Mount A	ProEvo - CM	2
7	331-04-04-07	RHS Clamp - Conveyor Clamp	ProEvo - CM	4
8	331-04-04-08	RHS Clamp - Conveyor Mount B	ProEvo - CM	2
9	331-04-04-09	Reflector Mount	ProEvo - SM	3
10	331-04-04-10	Sensor Mount	ProEvo - SM	1
11	Cable	Reed Switch Cable	Festo	4
12	DFM-16-50-B-PPV-A-GF	Guided Cylinder	Festo	2
13	GRLA-M5-QS-6-D	Flow Control M5 6MM	Festo	4
14	NEBU-M8G3-K-5-LE3	Connecting Cable - M8 3Pin 5m Open End	Festo	3
15	Plug	Reed Switch Plug	Festo	4
16	Reed Switch	Reed Switch	Festo	4
17	C4N 0120 S C N 1000 90 90 (0) (6m_min) (25kg)	Belt Conveyor - 120MM	Robot Units	1
18	GL6-P3211	Photoelectric Sensor	Sick	3
19	S283046	Reflector	Sick	3

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DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-04

DESCRIPTION: Cross Conveyor

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-05-01	Cage Load Back Plate	ProEvo - CM	1
2	331-04-05-03	Cage Mount Block	ProEvo - CM	3
3	331-04-05-04	Cage Rods	ProEvo - CM	6
4	331-04-05-05	Cylinder Foot Mount	ProEvo - CM	2
5	331-04-05-06	Cage Base Plate	ProEvo - CM	1
6	331-04-05-08	Bearing Spacer	ProEvo - CM	1
7	331-04-05-02	Cage Rod Support Mount	ProEvo - SM	6
8	331-04-05-07	Cage Rod Support	ProEvo - SM	3
9	Cable	Reed Switch Cable	Festo	1
10	DSBC-50-400-PPVA-N3	Square Cylinder	Festo	1
11	FK-M16X15	Self-aligning Rod Coupling M16x1.5	Festo	1
12	GRLA-1_4-Q5-8-D	Flow Control 1/4" 8mm	Festo	2
13	Plug	Reed Switch Plug	Festo	1
14	Reed Switch	Reed Switch	Festo	1
15	331-04-05-09	NH30 Rail	Statewide	1
16	NH30BN - Runner Block	NH30BN Runner Block	Statewide	2

Stack Loader

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ANGULAR: $\pm 0.5^\circ$

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DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-05

DESCRIPTION: Stack Loader

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1

GA Drawings



Process Evolution



GA Drawings

Multisize Lid Support



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-06-01	Cylinder Spacer	ProEvo - CM	2
2	331-04-06-03	Back Support Plate	ProEvo - CM	1
3	331-04-06-05	Support Rod	ProEvo - CM	6
4	331-04-06-06	Rod Support Mount	ProEvo - CM	3
5	331-04-06-02	Stack Rod Support Brace	ProEvo - SM	3
6	331-04-06-04	Back Support Rod Mount	ProEvo - SM	6
7	Cable	Reed Switch Cable	Festo	2
8	DFM-20-25-B-PPV-A-GF	Guided Cylinder	Festo	2
9	GRLA-M5-QS-6-D	Flow Control M5 6MM	Festo	4
10	Plug	Reed Switch Plug	Festo	2
11	Reed Switch	Reed Switch	Festo	2

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DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-06

DESCRIPTION: Multisize Lid Support

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

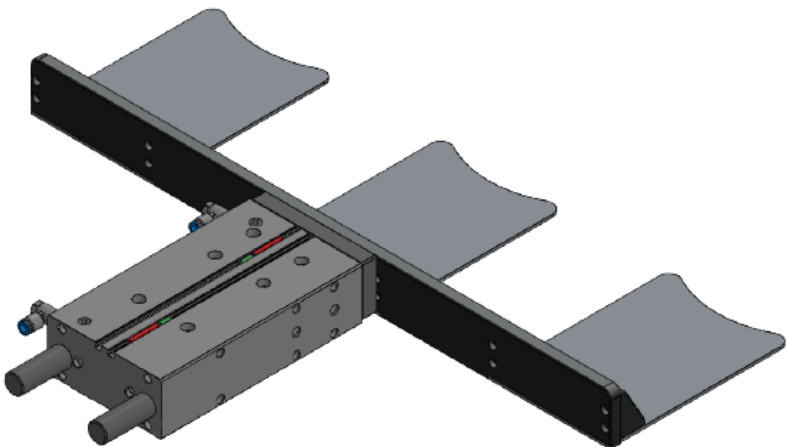
SHEET 1 OF 1



GA Drawings

Stack Chute

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-07-01	Mount Plate	ProEvo - CM	1
2	331-04-07-02	Gusset	ProEvo - CM	6
3	331-04-07-03	Load Plate	ProEvo - SM	3
4	Cable	Reed Switch Cable	Festo	2
5	DFM-40-160-P-A-GF	Guided Cylinder	Festo	1
6	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	2
7	Plug	Reed Switch Plug	Festo	2
8	Reed Switch	Reed Switch	Festo	2



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ANGULAR: $\pm 0.5^\circ$

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DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-07

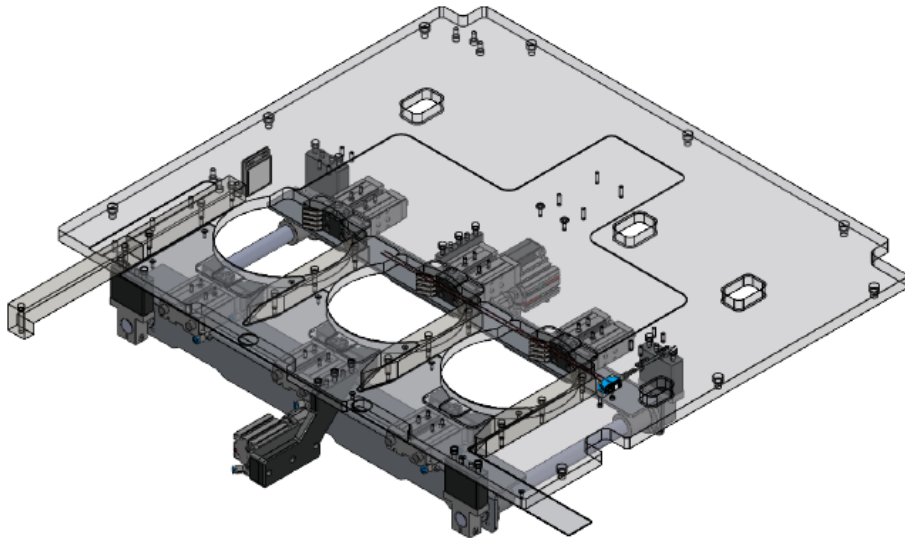
DESCRIPTION: Stack Chute

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-08-01	Base Plate	ProEvo - CM	1
2	331-04-08-02	Shaft Support Spacer	ProEvo - CM	4
3	331-04-08-03	Denestor Cylinder Mount	ProEvo - CM	2
4	331-04-08-04	Cylinder Spacer	ProEvo - CM	2
5	331-04-08-05	Stack Clamp Block	ProEvo - CM	6
6	331-04-08-06	Adjustor bolt	ProEvo - CM	6
7	331-04-08-08	Adjuster Mount	ProEvo - CM	6
8	331-04-08-10	Stack Guide - Inner	ProEvo - CM	2
9	331-04-08-11	Stack Guide - End	ProEvo - CM	1
10	331-04-08-12	Stack Guide - Start	ProEvo - CM	1
11	331-04-08-13	Sensor Spacer	ProEvo - CM	1
12	331-04-08-14	Stack Guide - Conveyor End	ProEvo - CM	1
13	331-04-08-07	Denesting Plate	ProEvo - SM	2
14	331-04-08-15	Load Plate	ProEvo - SM	1
15	331-04-08-16	Reflector Bracket	ProEvo - SM	1
16	331-04-08-17	SILICONE PORTLIGHT - 6mm x 6mm 50 Duro	Complete Rubber	48
17	ADN-S-32-50-A-P	Square Cylinder	Festo	2
18	Cable	Reed Switch Cable	Festo	10
19	DFM-20-25-B-PPV-A-GF	Guided Cylinder	Festo	6
20	FK-M10X125	Self-aligning rod coupler	Festo	2
21	GRLA-M5-QS-6-D	Flow Control M5 6MM	Festo	16
22	HNA-32	Foot Mount	Festo	2
23	NEBU-M8G3-K-5-LE3	Connecting Cable - M8 3Pin 5m Open End	Festo	1
24	Plug	Reed Switch Plug	Festo	10
25	Reed Switch	Reed Switch	Festo	10
26	GL6-P3211	Photoelectric Sensor	Sick	1
27	S283046	Reflector	Sick	1
28	331-04-08-09	25mm Linear Shaft	Statewide	2
29	SH25A	Shaft support - 25mm	Statewide	4
30	SMF25UU-E	Linear bush 25mm	Statewide	4

Lid Denester

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ANGULAR: $\pm 0.5^\circ$

REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-08

DESCRIPTION: Denester

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1

GA Drawings

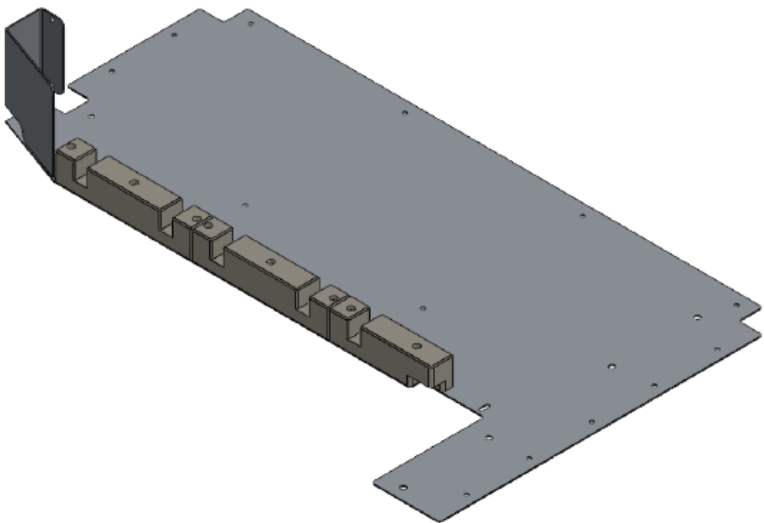
**Process Evolution**



GA Drawings

Cross Conveyor Guides

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-09-02	Stack Guide - Long	ProEvo - CM	2
2	331-04-09-03	Stack Guide - Short	ProEvo - CM	1
3	331-04-09-01	Cover Plate - Internal Top	ProEvo - SM	1
4	331-04-09-04	Guide Plate	ProEvo - SM	1



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EXCEPT WHERE OTHERWISE STATED
ALL DIMENSIONS ARE IN mm
DIMENSIONAL TOLERANCES AS
FOLLOWS:
LINEAR: $\pm 0.1\text{mm}$
HOLES: $\pm 0.1\text{mm}$
ANGULAR: $\pm 0.5^\circ$
REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 21/02/2023



REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-09

DESCRIPTION: Cross Conveyor Guides

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

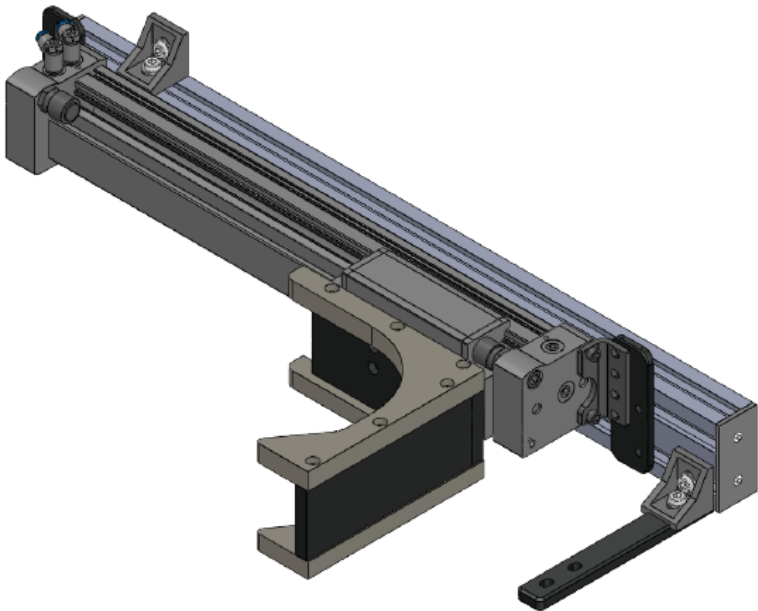
SHEET 1 OF 1



GA Drawings

Stack Conveyor Pusher

ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-10-02	Cylinder Spacer	ProEvo - CM	2
2	331-04-10-03	Stack Guide Arm - Top	ProEvo - CM	1
3	331-04-10-04	Guide Arm Mount	ProEvo - CM	1
4	331-04-10-05	Stack Guide Arm - Lower	ProEvo - CM	1
5	331-04-10-06	Guide Arm Support	ProEvo - CM	1
6	331-04-10-07	Extrusion Support	ProEvo - CM	1
7	331-04-10-08	Sensor Bracket	ProEvo - SM	1
8	Cable	Reed Switch Cable	Festo	2
9	DGC-32-300-GF-PPV-A	Rodless Cylinder	Festo	1
10	GRLA-1_8-QS-6-D	Flow Control 1/8" 6mm	Festo	2
11	HPC-32	Foot Mount	Festo	1
12	Plug	Reed Switch Plug	Festo	2
13	Reed Switch	Reed Switch	Festo	2
14	331-04-10-01	Push In Extrusion	Robot Units	1
15	CAP 4081	End Cap 40x80	Robot Units	2
16	GUS 4501	Corner Bracket 40_50 Kit	Robot Units	3



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ANGULAR: $\pm 0.5^\circ$
REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-10

DESCRIPTION: Stack Conveyor Pusher

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



Infeed Conveyor



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-11-02	Spacer	ProEvo - CM	1
2	331-04-11-01	Transfer Dead Plate	ProEvo - SM	1
3	Roller Conveyor Foot		ProEvo - Conveyor	6
4	Roller Conveyor Cross Brace		ProEvo - Conveyor	6
5	Roller Conveyor Leg Mount		ProEvo - Conveyor	6
6	Roller Conveyor Main Leg		ProEvo - Conveyor	6
7	Roller Conveyor Reflector		ProEvo - Conveyor	9
8	Roller Conveyor Reflector Bracket		ProEvo - Conveyor	9
9	Roller Conveyor Roller		ProEvo - Conveyor	36
10	Roller Conveyor Sensor	GL6-#11#1-S240408	ProEvo - Conveyor	9
11	Roller Conveyor Sensor Bracket		ProEvo - Conveyor	9
12	Roller Conveyor Side Cover		ProEvo - Conveyor	2
13	Roller Conveyor Side Guide		ProEvo - Conveyor	2
14	Roller Conveyor Side Guide Clamp		ProEvo - Conveyor	8
15	Roller Conveyor Side Guide Mount Plate		ProEvo - Conveyor	4
16	Roller Conveyor Side Guide Mount Post		ProEvo - Conveyor	4
17	Roller Conveyor Side Profile		ProEvo - Conveyor	2

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ANGULAR: $\pm 0.5^\circ$
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DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-11

DESCRIPTION: Infeed Conveyor

QUANTITY:

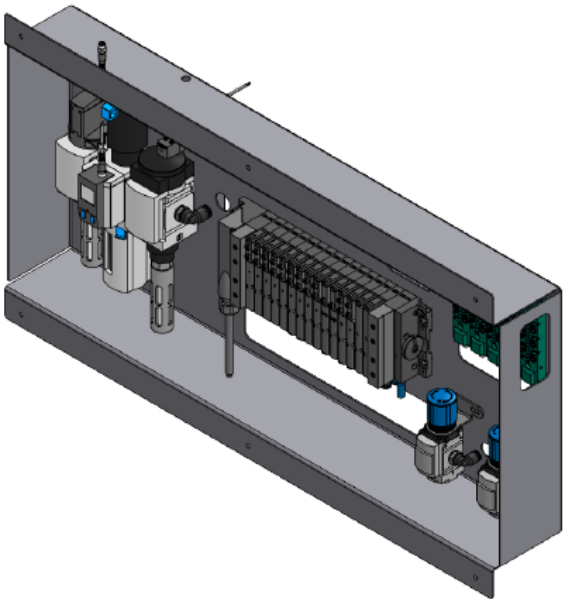
MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1

GA Drawings

Pneumatics Panel



ITEM NO.	PART NUMBER	Description	Vendor	QTY.
1	331-04-12-01	Pneumatic Panel	ProEvo - SM	1
2	MSB6-3_8_C4_J13_D4-WP	Air Service Unit	Festo	1
3	34P-MS8-BGG-U15EU-9JMSMSEJLL	Valve Bank	Festo	1
4	KMEB-1-24-5-LED	Plug & Cable	Festo	1
5	MS4-LR-1_4-D6-AG-MPA-B	Regulator	Festo	2
6	MS4-WR-B	Regulator Bracket	Festo	2
7	NEBU-M8G3-K-5-M8G3	Cable M8 3-pin 5m	Festo	1
8	QS-G1_8-6-I	Push-In 1/8" 6mm Internal Hex	Festo	16
9	QS-G1_8-8-I	Push-In 1/8" 8mm Internal Hex	Festo	14
10	QSL-G1_4-8	Push-In L G1/4" 8mm	Festo	4
11	QSL-G3_8-10	Push-In L G3/8" 10mm	Festo	2
12	VMPAL-KM-V-SD44-1P67-5	Valve Bank Cable 44 Pin 5m	Festo	1
13	V3-8A-E2-5M-PUR	Splitter Box 8 Way M8 3pin	Pepperl Fuchs	5
14	MS6-SV-1_2-D-10V24-2M8-SO-WB	Safety Dump Valve	Festo	1

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REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 21/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-04-12

DESCRIPTION: Pneumatic Panel

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1