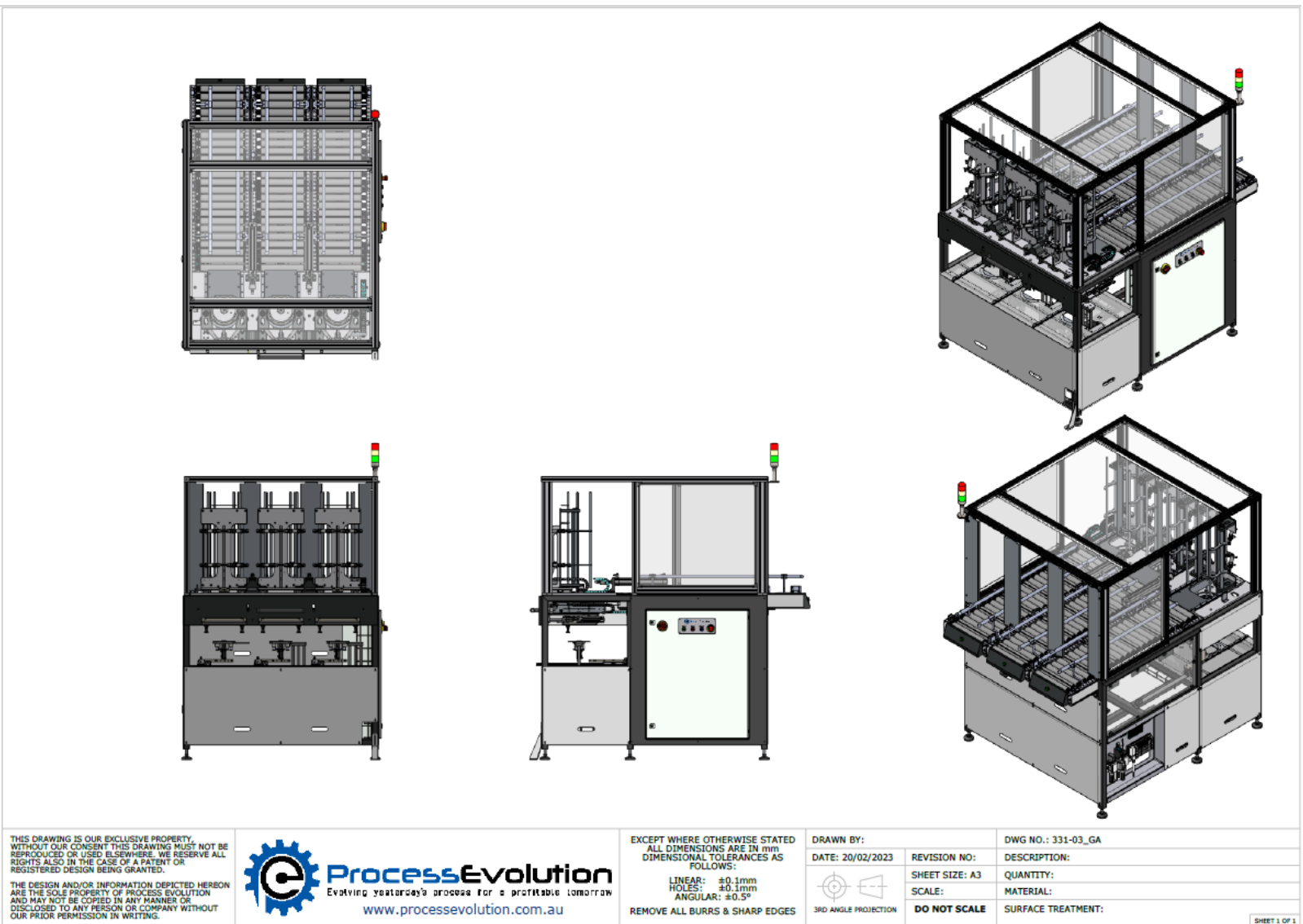
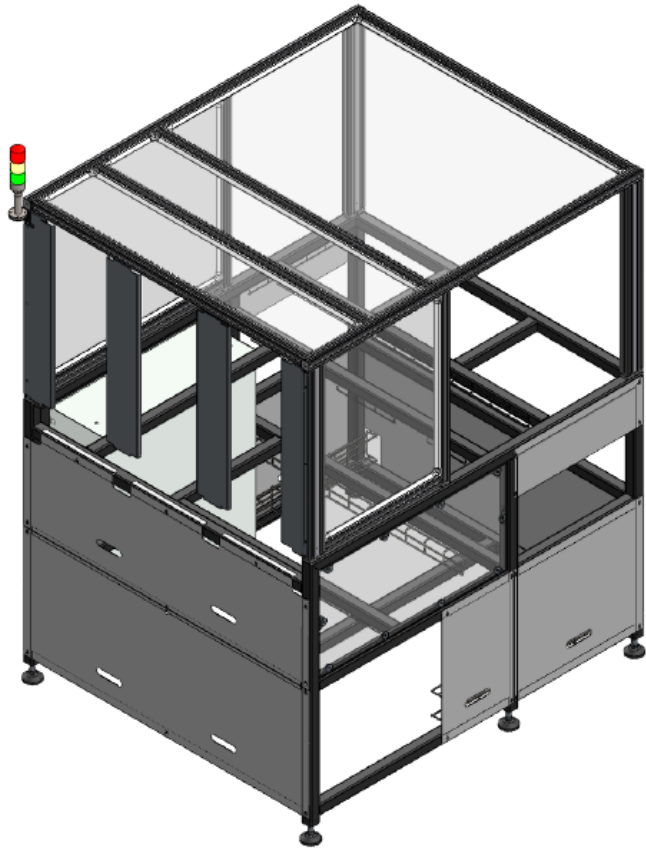


GA Drawings

Small Pail Denester

Main Assembly





| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|-------------------------------------|---|------------------|------|
| 1 | 331-03-01-01 | Frame | ProEvo - Fab | 1 |
| 2 | 331-03-01-09 | Window surround long - RHS | ProEvo - Fab | 2 |
| 3 | 331-03-01-10 | Window Surround Short - RHS | ProEvo - Fab | 2 |
| 4 | 331-03-01-14 | Polycarbonate window - RHS | ProEvo - PR | 1 |
| 5 | 331-03-01-19 | Polycarbonate Window - Roof rear | ProEvo - PR | 1 |
| 6 | 331-03-01-20 | Polycarbonate Window - LHS | ProEvo - PR | 1 |
| 7 | 331-03-01-23 | Polycarbonate Window - Roof Front | ProEvo - PR | 2 |
| 8 | 331-03-01-02 | Rear Cover | ProEvo - SM | 1 |
| 9 | 331-03-01-04 | Panel Rear RHS | ProEvo - SM | 1 |
| 10 | 331-03-01-05 | Panel Mid RHS | ProEvo - SM | 1 |
| 11 | 331-03-01-06 | Panel electrical surround | ProEvo - SM | 1 |
| 12 | 331-03-01-07 | Panel front lower | ProEvo - SM | 1 |
| 13 | 331-03-01-12 | Window mounting washer | ProEvo - SM | 10 |
| 14 | 331-03-01-15 | Panel Front Upper | ProEvo - SM | 1 |
| 15 | 331-03-01-16 | Infeed Cover Inner | ProEvo - SM | 2 |
| 16 | 331-03-01-17 | Infeed Cover Outer | ProEvo - SM | 1 |
| 17 | 331-03-01-24 | Panel LHS Rear | ProEvo - SM | 1 |
| 18 | 331-03-01-25 | Infeed Cover Outer | ProEvo - SM | 1 |
| 19 | 331-03-01-26 | Panel - Rear Upper Sides | ProEvo - SM | 2 |
| 20 | ProEvo Pushbutton Faceplate | ProEvo Pushbutton Faceplate | Mallards | 1 |
| 21 | oka_ku_ik10 | Isolator Switch | APS Industrial | 1 |
| 22 | Axellent - 0111 | X-Tray U 120x60 | Axellent | 5 |
| 23 | Axellent - 1152 | X-Tray Mini 30x22 | Axellent | 1 |
| 24 | Axellent - 1154 | X-Tray Mini 40x32 | Axellent | 6 |
| 25 | 96000901 | Wall Bracket for Tube Mount | Balluff | 1 |
| 26 | CST55 BWM Pulse tone 24VDC GN_YE_RD | Signal Tower -24VDC Red-Yellow-Green w/ Alarm | Balluff | 1 |
| 27 | E2 AC-DXBC1002 | Emergency Stop Push Button | Leuze | 1 |
| 28 | VE TF32A5102 | Emergency Stop Label | Leuze | 1 |
| 29 | 331-03-01-11 | Window - RHS Lower | ProEvo - PR | 1 |
| 30 | LVR8020100SSS | Machine Feet | Richmond Castors | 6 |
| 31 | AE 1180.500 | Electrical Enclosure | Rittal | 1 |
| 32 | 331-03-01-03 | Extrusion Frame | Robotunits | 1 |
| 33 | 331-03-01-13 | Window edging - RHS | Robotunits | 1 |
| 34 | 331-03-01-18 | Window edging - Roof rear | Robotunits | 1 |
| 35 | 331-03-01-21 | Window edging - LHS | Robotunits | 1 |
| 36 | 331-03-01-22 | Window edging - roof front | Robotunits | 2 |
| 37 | CAN 4501 | Corner Piece | Robotunits | 20 |
| 38 | CAP 4041 | End Cap | Robotunits | 4 |
| 39 | FAS 4049 | Surface fastener | Robotunits | 10 |
| 40 | M22FP-MSF11E30 | 22mm Pushbutton Momentary Blue Illuminated Blue | Switches Plus | 3 |

Frame

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DRAWN BY:

DATE: 20/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-01

DESCRIPTION: Frame

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



Process Evolution

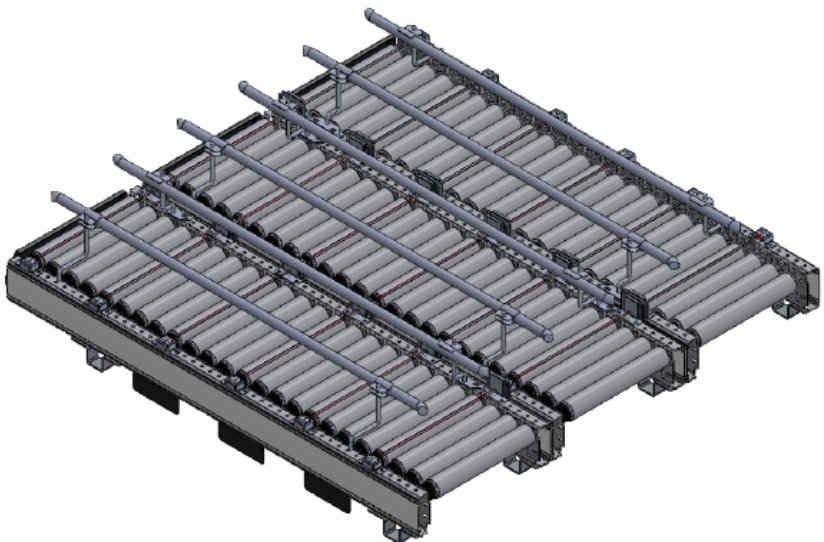
GA Drawings



GA Drawings

In-Feed Conveyors

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--|---|-------------------|------|
| 1 | 331-03-02-01 | Conveyor Mounting Clamp | ProEvo - SM | 12 |
| 2 | 331-03-02-02 | Conveyor Start Panel | ProEvo - SM | 3 |
| 3 | 331-03-02-03 | Eco Drive Bracket | ProEvo - SM | 9 |
| 4 | Roller Conveyor Sensor | GL6-#11#1-S240408 | ProEvo - Conveyor | 18 |
| 5 | Roller Conveyor Side Guide Mount Plate 2 | | ProEvo - Conveyor | 8 |
| 6 | Roller Conveyor Side Guide Mount Post | | ProEvo - Conveyor | 12 |
| 7 | Roller Conveyor Side Guide | | ProEvo - Conveyor | 6 |
| 8 | Roller Conveyor Side Guide Clamp | | ProEvo - Conveyor | 24 |
| 9 | Roller Conveyor Side Cover | | ProEvo - Conveyor | 6 |
| 10 | Roller Conveyor Side Profile | | ProEvo - Conveyor | 6 |
| 11 | Roller Conveyor Roller | | ProEvo - Conveyor | 72 |
| 12 | Roller Conveyor Reflector | | ProEvo - Conveyor | 18 |
| 13 | Roller Conveyor Sensor Bracket | | ProEvo - Conveyor | 18 |
| 14 | Roller Conveyor Reflector Bracket | | ProEvo - Conveyor | 18 |
| 15 | M22FP-MSF11E30 | 22mm Pushbutton Momentary Illuminated Green | Switches Plus | 3 |



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DATE: 27/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-02

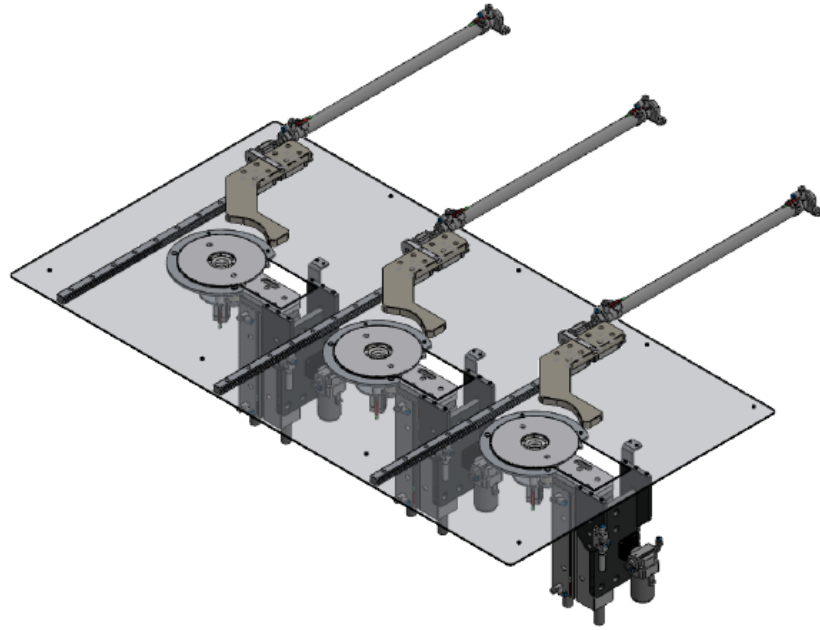
DESCRIPTION: In-feed Conveyor

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|---|------------------------------|-------------|------|
| 1 | 331-03-03-02 | Lift cylinder side plate | ProEvo - CM | 6 |
| 2 | 331-03-03-03 | Lift Cylinder Mount | ProEvo - CM | 3 |
| 3 | 331-03-03-04 | Vacuum base plate | ProEvo - CM | 3 |
| 4 | 331-03-03-05 | Spacer post | ProEvo - CM | 9 |
| 5 | 331-03-03-07 | Pail plate | ProEvo - CM | 3 |
| 6 | 331-03-03-09 | Guide bush | ProEvo - CM | 6 |
| 7 | 331-03-03-16 | Pail Pusher | ProEvo - CM | 3 |
| 8 | 331-03-03-17 | Pail pusher coupling | ProEvo - CM | 3 |
| 9 | 331-03-03-01 | Base Plate | ProEvo - SM | 1 |
| 10 | 331-03-03-06 | Vacuum cylinder mount | ProEvo - SM | 3 |
| 11 | 331-03-03-10 | Stop Plate | ProEvo - SM | 3 |
| 12 | 331-03-03-11 | Stop Washer | ProEvo - SM | 6 |
| 13 | 331-03-03-12 | Anti rotate plate | ProEvo - SM | 3 |
| 14 | 331-03-03-13 | Cable chain bracket - moving | ProEvo - SM | 3 |
| 15 | 331-03-03-14 | Cable chain bracket - fixed | ProEvo - SM | 3 |
| 16 | 331-03-03-15 | Cylinder mount spacer | ProEvo - SM | 3 |
| 17 | ADN-16-25-A-P-A | Compact Cylinder | Festo | 3 |
| 18 | Cable | Reed Switch Cable | Festo | 15 |
| 19 | DFM-40-200-P-A-GF | Guided Cylinder | Festo | 3 |
| 20 | DSNU-25-500-PPV-A | Round Cylinder | Festo | 3 |
| 21 | ESG-40-CS-HB-QS | Vacuum Cup | Festo | 3 |
| 22 | FK-M10X125 | Self-aligning rod coupler | Festo | 3 |
| 23 | GRLA-1_8-QS-6-D | Flow Control 1/8" 6mm | Festo | 12 |
| 24 | GRLA-M5-QS-4-D | Flow Control M5 4mm | Festo | 6 |
| 25 | HBN-20_25X2 | Foot Mount | Festo | 3 |
| 26 | Plug | Reed Switch Plug | Festo | 15 |
| 27 | QSL-G1_4-6 | Push-In L 1/4" 6mm | Festo | 6 |
| 28 | Reed Switch | Reed Switch | Festo | 15 |
| 29 | SMBR-8-25 | Mounting Kit - 25mm | Festo | 6 |
| 30 | VN-07-H-T4-PQ2-VQ2-Q2-P | Vacuum generator | Festo | 3 |
| 31 | Igus 0_46m_E08_20_038_0_080_20_I2PZ_A3_3 | Energy Chain | Igus | 3 |
| 32 | AFJ30-02B-5-T | Vacuum Filter | SMC | 3 |
| 33 | 331-03-03-08 | Linear Shaft | Statewide | 6 |
| 34 | 331-03-03-18 | N1H20 Rail 20mm | Statewide | 3 |
| 35 | TRH20VN | Linear Carriage | Statewide | 6 |

Vacuum Pick & Place

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DATE: 17/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-03

DESCRIPTION: Vacuum Pick & Place

QUANTITY:

MATERIAL: Material <not specified>

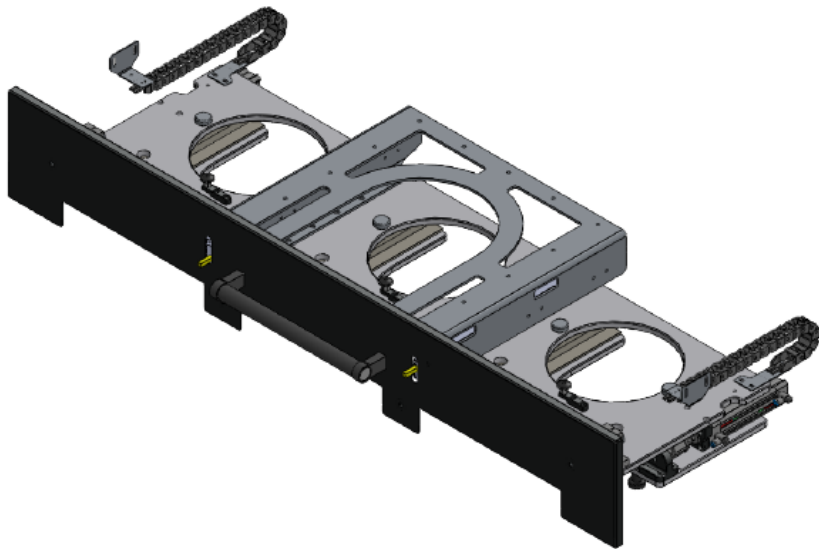
SURFACE TREATMENT:

SHEET 1 OF 1

GA Drawings



Process Evolution



| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|---|-------------------------------------|----------------|------|
| 1 | 331-03-04-01 | Denesting Plate | ProEvo - CM | 1 |
| 2 | 331-03-04-02 | Tooling guide - RHS | ProEvo - CM | 3 |
| 3 | 331-03-04-03 | Tooling guide - LHS | ProEvo - CM | 3 |
| 4 | 331-03-04-04 | Cyl Rod Mount | ProEvo - CM | 2 |
| 5 | 331-03-04-05 | Denesting Cyl Mount | ProEvo - CM | 2 |
| 6 | 331-03-04-06 | Denesting Base Plate | ProEvo - CM | 1 |
| 7 | 331-03-04-08 | Index Plunger Mount | ProEvo - CM | 3 |
| 8 | 331-03-04-09 | Locating Knob | ProEvo - CM | 6 |
| 9 | 331-03-04-12 | Face Plate Shaft | ProEvo - CM | 2 |
| 10 | 331-03-04-10 | Draw Slide Mount - LHS | ProEvo - SM | 1 |
| 11 | 331-03-04-11 | Draw Slide Mount - RHS | ProEvo - SM | 1 |
| 12 | 331-03-04-13 | Draw Slide Bracket | ProEvo - SM | 1 |
| 13 | 331-03-04-14 | Draw Front Panel | ProEvo - SM | 1 |
| 14 | 331-03-04-15 | Prox Sensor Bracket | ProEvo - SM | 1 |
| 15 | 331-03-04-16 | Energy Chain Bracket - Moving | ProEvo - SM | 2 |
| 16 | 331-03-04-17 | Energy Chain Bracket - Fixed | ProEvo - SM | 2 |
| 17 | DSHD500L | Heavy Duty Draw Slide 125kg Locking | Duraslide | 2 |
| 18 | GN 333.1-30-350-A-SW | Tubular handle | Elesa & Ganter | 1 |
| 19 | GN 615.3-M10-K | Spring plunger | Elesa & Ganter | 12 |
| 20 | GN 617.1-10-AK (deactivated-3) | Indexing plunger | Elesa & Ganter | 6 |
| 21 | GN 822.1-7-C-ST (deactivated) | Steel-Mini indexing plunger | Elesa & Ganter | 3 |
| 22 | Cable | Reed Switch Cable | Festo | 2 |
| 23 | DSBC-32-100-PPSA-N3 | Square Cylinder | Festo | 2 |
| 24 | FK-M10X125 | Self-aligning rod coupler | Festo | 2 |
| 25 | GRLA-1_8-QS-6-D | Flow Control 1/8" 6mm | Festo | 4 |
| 26 | Plug | Reed Switch Plug | Festo | 2 |
| 27 | Reed Switch | Reed Switch | Festo | 2 |
| 28 | Igus - 0_4m E08_20_028_0_080_20_12P2_A1_3 | Energy Chain | Igus | 2 |
| 29 | IME08-02BPSZTOK | Inductive Prox | Sick | 1 |
| 30 | 331-03-04-07 | Linear Shaft | Statewide | 2 |
| 31 | SH25A | Shaft support - 25mm | Statewide | 6 |
| 32 | SMA25UU | Linear Shaft Guide | Statewide | 4 |

Denester

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ANGULAR: $\pm 0.5^\circ$

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DATE: 16/02/2023

REVISION NO:

SHEET SIZE: A3

SCALE:

3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

3RD ANGLE PROJECTION

DWG NO.: 331-03-04

DESCRIPTION:

QUANTITY:

MATERIAL:

SURFACE TREATMENT:

SHEET 1 OF 1

GA Drawings

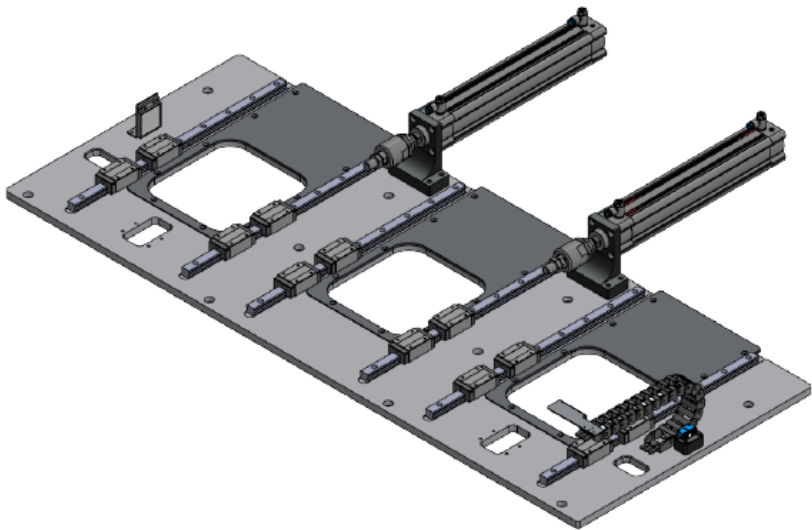


Process Evolution

GA Drawings

Pail Cage Top Plate

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--|------------------------------------|-------------|------|
| 1 | 331-03-05-01 | Top Base Plate | ProEvo - CM | 1 |
| 2 | 331-03-05-03 | Cylinder Mount | ProEvo - CM | 2 |
| 3 | 331-03-05-06 | Sensor mount | ProEvo - CM | 1 |
| 4 | 331-03-05-02 | Dead Plate | ProEvo - SM | 3 |
| 5 | 331-03-05-05 | Reflector Bracket | ProEvo - SM | 1 |
| 6 | 331-03-05-08 | Energy Chain Bracket | ProEvo - SM | 1 |
| 7 | Cable | Reed Switch Cable | Festo | 3 |
| 8 | DSBC-50-300-PPVA-N3 | Square Cylinder | Festo | 2 |
| 9 | FK-M16X15 | Self-aligning Rod Coupling M16x1.5 | Festo | 2 |
| 10 | GRLA-1_4-QS-8-D | Flow Control 1/4" 8mm | Festo | 4 |
| 11 | Plug | Reed Switch Plug | Festo | 3 |
| 12 | Reed Switch | Reed Switch | Festo | 3 |
| 13 | igus - 0_36m_E08_30_048_0_080_30_12PZ_AI_2.stp | Energy Chain | Igus | 1 |
| 14 | GL6-P3211 | Photoelectric Sensor | Sick | 1 |
| 15 | S283046 | Reflector | Sick | 1 |
| 16 | 331-03-05-07 | N1H20 Rail 20mm | Statewide | 6 |
| 17 | TRH20VN | Linear Carriage | Statewide | 12 |



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ANGULAR: $\pm 0.5^\circ$

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DATE: 16/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-05

DESCRIPTION: Pail Cage Top Plate

QUANTITY:

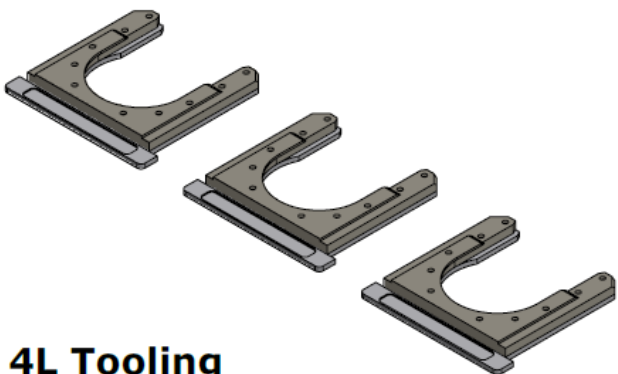
MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1

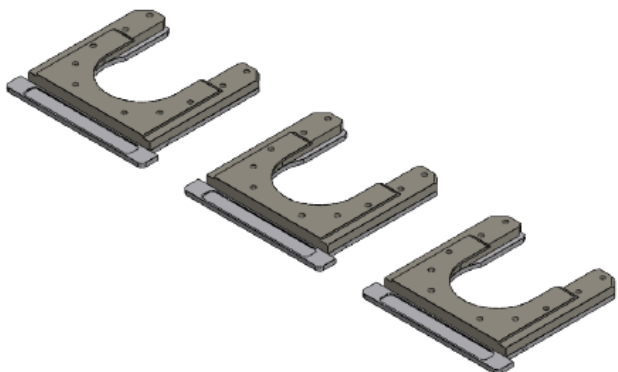


Denester Tooling



4L Tooling

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--------------------|---------------------------------|----------------|------|
| 1 | 331-03-06-01 | Denesting Tooling Separator- 4L | ProEvo - CM | 3 |
| 2 | 331-03-06-02 | Denesting Tooling Base - 4L | ProEvo - CM | 3 |
| 3 | DIN 172-B10_1-12-A | Guide bush with collar | Elesa & Ganter | 6 |



2.3L Tooling

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--------------------|-----------------------------------|----------------|------|
| 1 | 331-03-06-03 | Denesting Tooling Separator- 2.3L | ProEvo - CM | 3 |
| 2 | 331-03-06-04 | Denesting Tooling Base - 2.3L | ProEvo - CM | 3 |
| 3 | DIN 172-B10_1-12-A | Guide bush with collar | Elesa & Ganter | 6 |

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DRAWN BY:

DATE: 16/02/2023

REVISION NO:

SHEET SIZE: A3

SCALE:

3RD ANGLE PROJECTION

DO NOT SCALE

DWG NO.: 331-03-06

DESCRIPTION: Pall Denester Tooling

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1

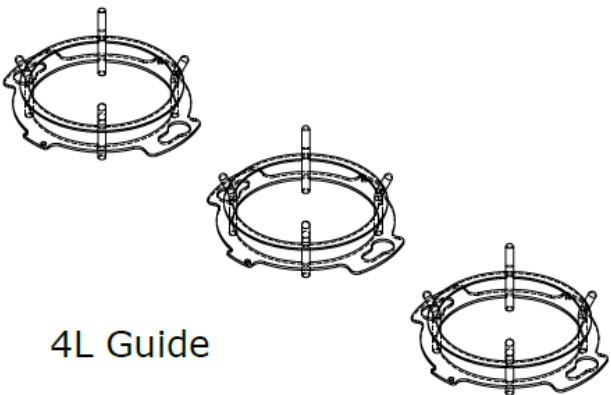


GA Drawings

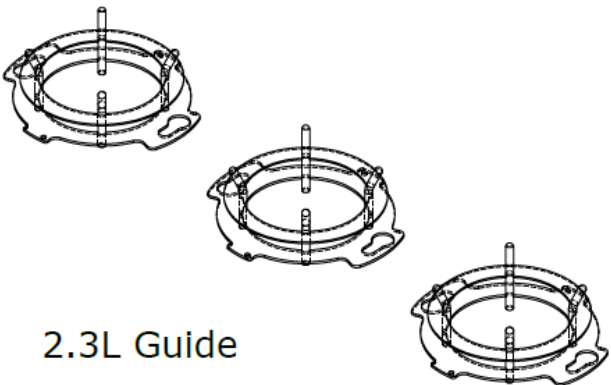
Pail Guide Change Tooling

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--------------|----------------------|-------------|------|
| 1 | 331-03-07-03 | Denesting guide post | ProEvo - CM | 12 |
| 2 | 331-03-07-01 | 4L Pail guide base | ProEvo - SM | 3 |
| 3 | 331-03-07-02 | 4L Pail guide base | ProEvo - SM | 3 |

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--------------|----------------------|-------------|------|
| 1 | 331-03-07-03 | Denesting guide post | ProEvo - CM | 12 |
| 2 | 331-03-07-04 | 2.3L Pail guide base | ProEvo - SM | 3 |
| 3 | 331-03-07-05 | 2.3L Pail guide base | ProEvo - SM | 3 |



4L Guide



2.3L Guide

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DRAWN BY:

DATE: 16/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-07

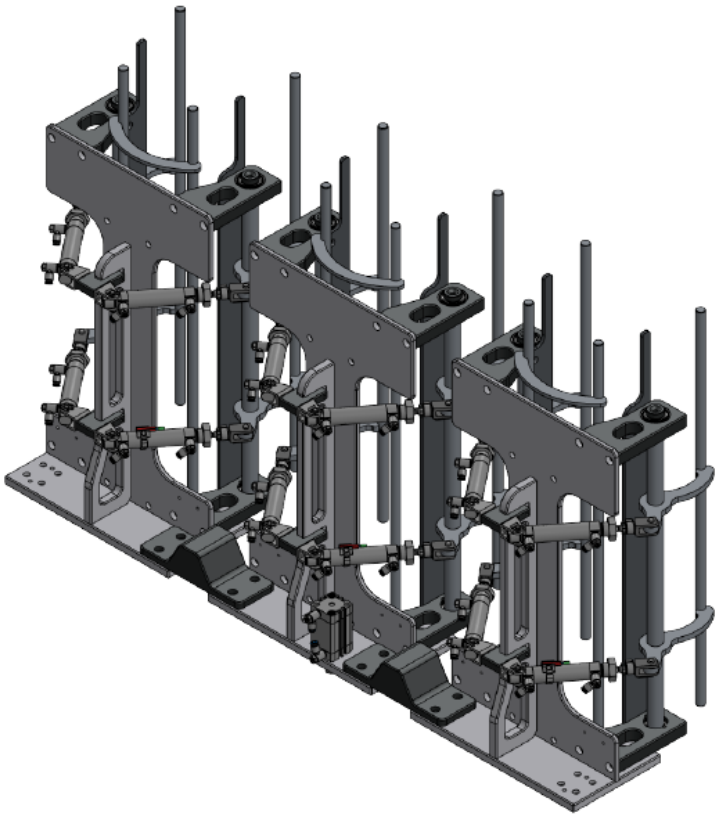
DESCRIPTION: Pail Guide Change Tooling

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1



| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|--------------------|---|-------------|------|
| 1 | 331-03-08-01 | Cage base plate | ProEvo - CM | 3 |
| 2 | 331-03-08-02 | Cage Back Plate | ProEvo - CM | 3 |
| 3 | 331-03-08-03 | Back Support | ProEvo - CM | 3 |
| 4 | 331-03-08-04 | Cage support Mount | ProEvo - CM | 6 |
| 5 | 331-03-08-05 | Pivot Rod Main Support 1 | ProEvo - CM | 6 |
| 6 | 331-03-08-06 | Pivot Rod Main Support 2 | ProEvo - CM | 6 |
| 7 | 331-03-08-07 | Pivot Shaft | ProEvo - CM | 6 |
| 8 | 331-03-08-08 | Clevis Mount Block | ProEvo - CM | 6 |
| 9 | 331-03-08-10 | Cage Post | ProEvo - CM | 12 |
| 10 | 331-03-08-11 | Bearing Cap | ProEvo - CM | 12 |
| 11 | 331-03-08-13 | Cage Link | ProEvo - CM | 2 |
| 12 | 331-03-08-09 | Cage Pivot Arms | ProEvo - SM | 12 |
| 13 | 331-03-08-12 | Cage Back Support Link | ProEvo - SM | 3 |
| 14 | 331-03-08-15 | Pail Guide Strip | ProEvo - SM | 3 |
| 15 | Mirror331-03-08-15 | Pail Guide Strip - Mirror | ProEvo - SM | 3 |
| 16 | Cable | Reed Switch Cable | Festo | 3 |
| 17 | DFSP-32-25-DS-PA | Stopper Cylinder | Festo | 1 |
| 18 | DSNU-25-50-PPS-A | Round Cylinder | Festo | 12 |
| 19 | GRLA-1_8-QS-6-D | Flow Control 1/8" 6mm | Festo | 26 |
| 20 | LBN-20_25 | Clevis Foot | Festo | 12 |
| 21 | Plug | Reed Switch Plug | Festo | 3 |
| 22 | Reed Switch | Reed Switch | Festo | 3 |
| 23 | SG-M10X125 | Clevis M10x1.25 | Festo | 12 |
| 24 | SMBR-8-25 | Mounting Kit - 25mm | Festo | 3 |
| 25 | 2204 E-2RS1TN9 | Self Aligning Ball Bearing I.D 20mm OD 47mm | Statewide | 12 |

Pail Cage

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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: 16/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-08

DESCRIPTION: Pail Cage Loader

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

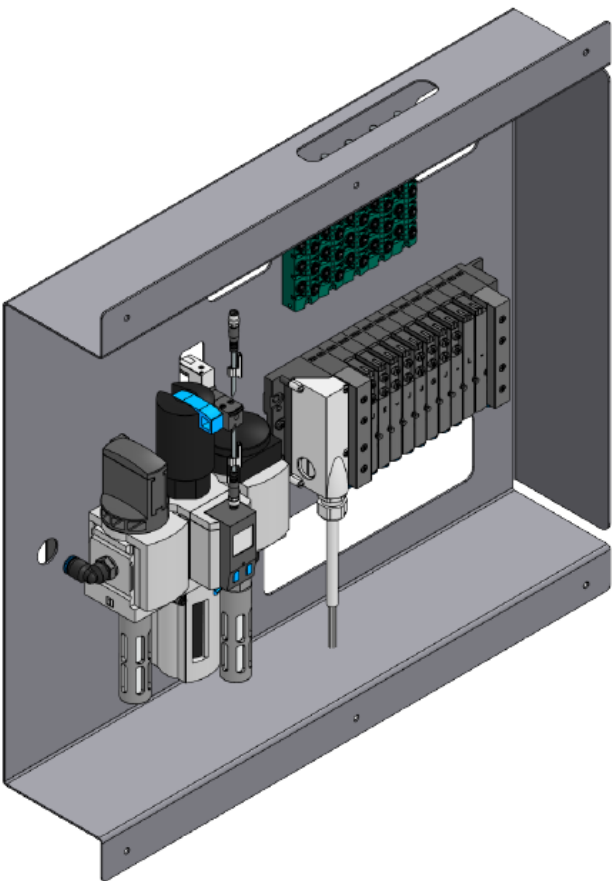
SHEET 1 OF 1



GA Drawings

Pneumatics Panel

| ITEM NO. | PART NUMBER | Description | Vendor | QTY. |
|----------|------------------------------|-------------------------------|---------------|------|
| 1 | 331-03-09-01 | Pneumatic Panel | ProEvo - SM | 1 |
| 2 | MSB6-3_8_C4_J13_D4-WP | Air Service Unit | Festo | 1 |
| 3 | 34P-MS6-BGG-U10EU-JE3JGJLL | Valve Bank | Festo | 1 |
| 4 | KMEB-1-24-5-LED | Plug & Cable | Festo | 1 |
| 5 | MS6-SV-1_2-D-10V24-2M8-SO-WB | Safety Dump Valve | Festo | 1 |
| 6 | NEBU-M8G3-K-5-M8G3 | Cable M8 3-pin 5m | Festo | 1 |
| 7 | QS-G1_8-8-I | Push-In 1/8" 8mm Internal Hex | Festo | 20 |
| 8 | QSL-G3_8-10 | Push-In L G3/8" 10mm | Festo | 2 |
| 9 | VMPAL-KM-V-SD25-IP67-5 | Connecting Cable - Valve Bank | Festo | 1 |
| 10 | V3-8A-E2-5M-PUR | Splitter Box 8 Way M8 3pin | Pepperl Fuchs | 5 |



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REMOVE ALL BURRS & SHARP EDGES

DRAWN BY:

DATE: 16/02/2023



3RD ANGLE PROJECTION

REVISION NO:

SHEET SIZE: A3

SCALE:

DO NOT SCALE

DWG NO.: 331-03-09

DESCRIPTION: Pneumatic Panel

QUANTITY:

MATERIAL: Material <not specified>

SURFACE TREATMENT:

SHEET 1 OF 1