

# From Product Development to Product Execution



# Content

- Introductions
- Product Development
  - Engineering Release: PDM to PLM
  - Manufacturing Release: PLM to ERP
- Product Execution
  - Material Disposition: ERP to PLM
  - Production Scheduling: PLM to APS







# Adam Freeman

Head of Pre-sales (MFG), The Access Group

- Qualified Accountant (ACCA)
- 15 years experience working with manufacturers
- 8 years with Access from consultant through to leading the pre sales consultancy team
- Add value through optimizing business processes
- Focus on planning, manufacturing execution and financials



CAD

Computer Aided Design

CAM

Computer Aided Manufacturing

CNC

Computer Numerical Code

PDM

Product Data Management

PLM

Product Lifecycle Management

BoM

Bill of Materials

ECO

Engineering Change Order

ERP

Enterprise Resource Planning

APS

Advanced Planning & Scheduling



# Steve Bedder

Senior Solutions Specialist, Autodesk

- Based in The Peak District, UK
- 20+ years working with manufacturers
- 12 years with Autodesk
- CAD, PDM & PLM
- Data & process focus
- Enterprise technology







**PRODUCT  
DEVELOPMENT**

**PRODUCT  
EXECUTION**

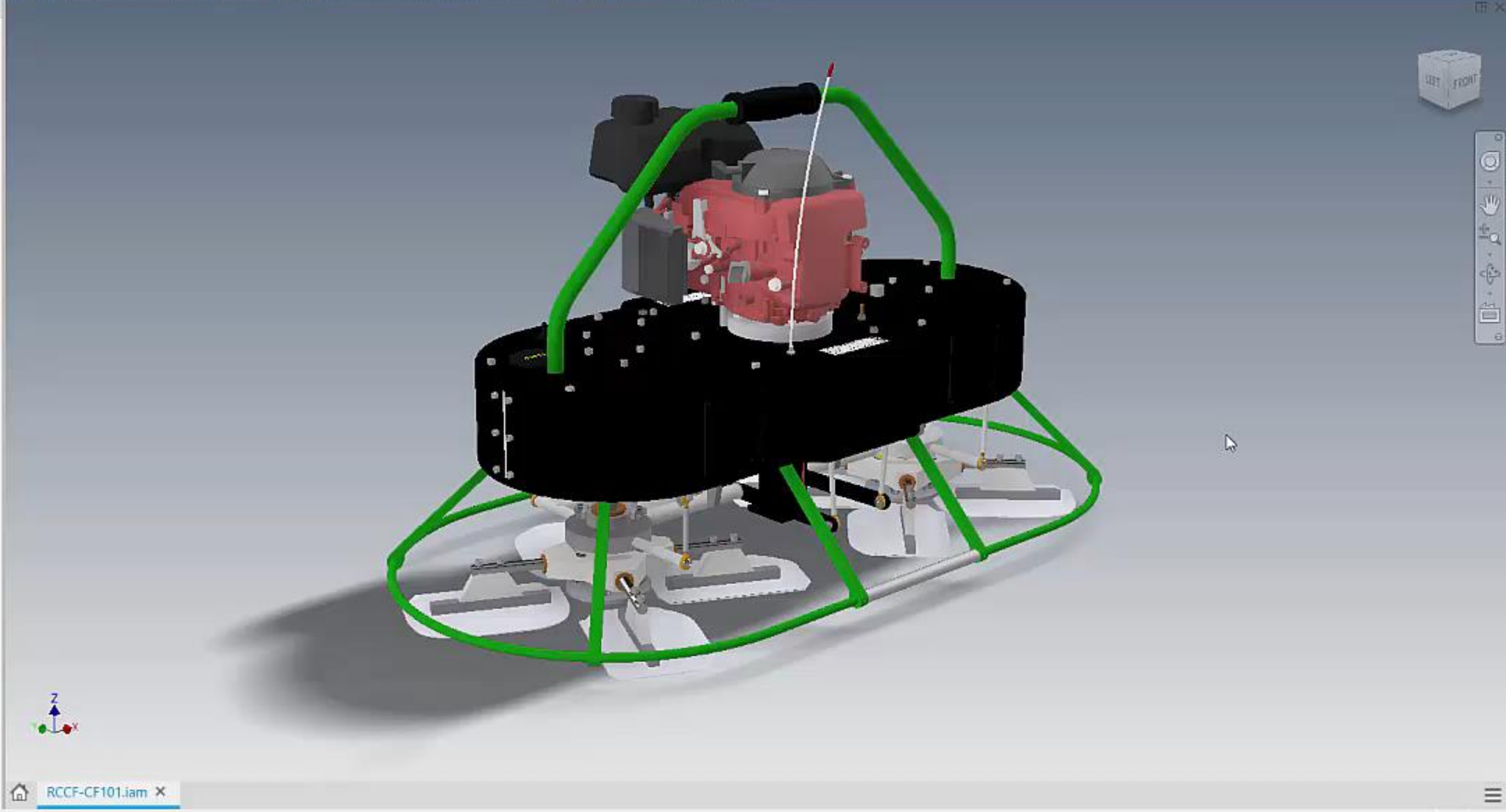
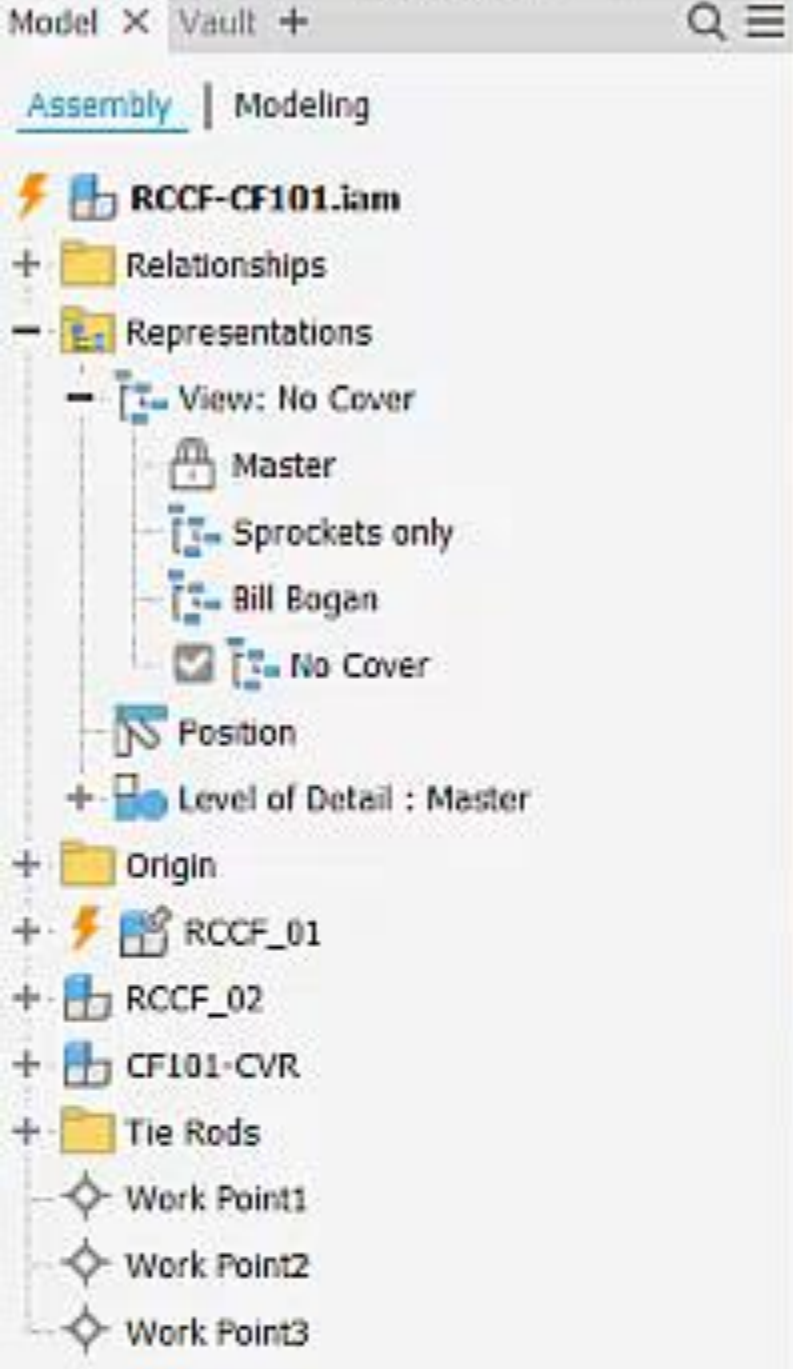




# Product Development









Model X Vault +

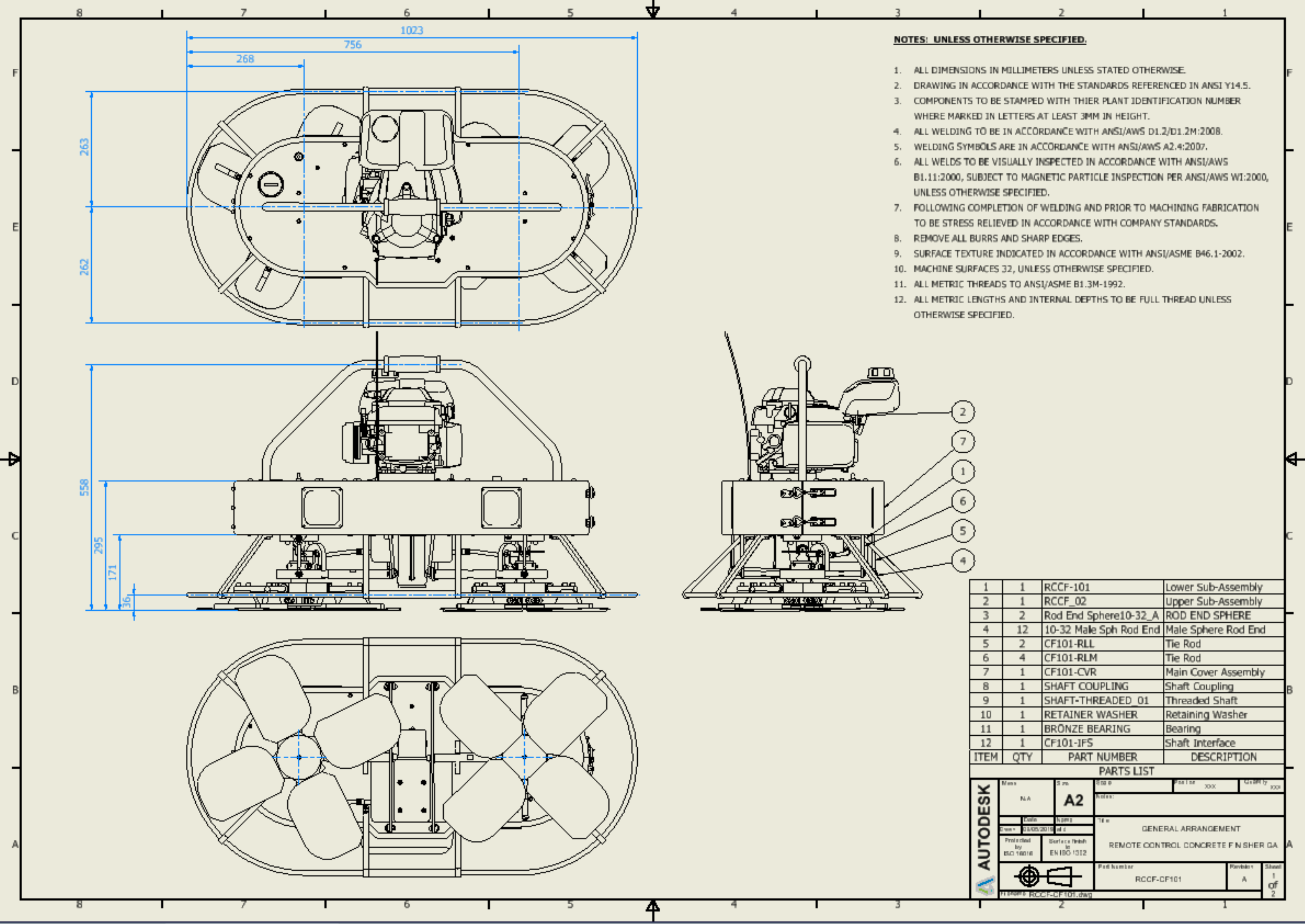
RCCF-CF101.dwg

Drawing Resources

Sheet:1

- Default Border
- ADSK
- PARTS LIST:RCCF-CF101.iam
- VIEW1:RCCF-CF101.iam

Sheet:2





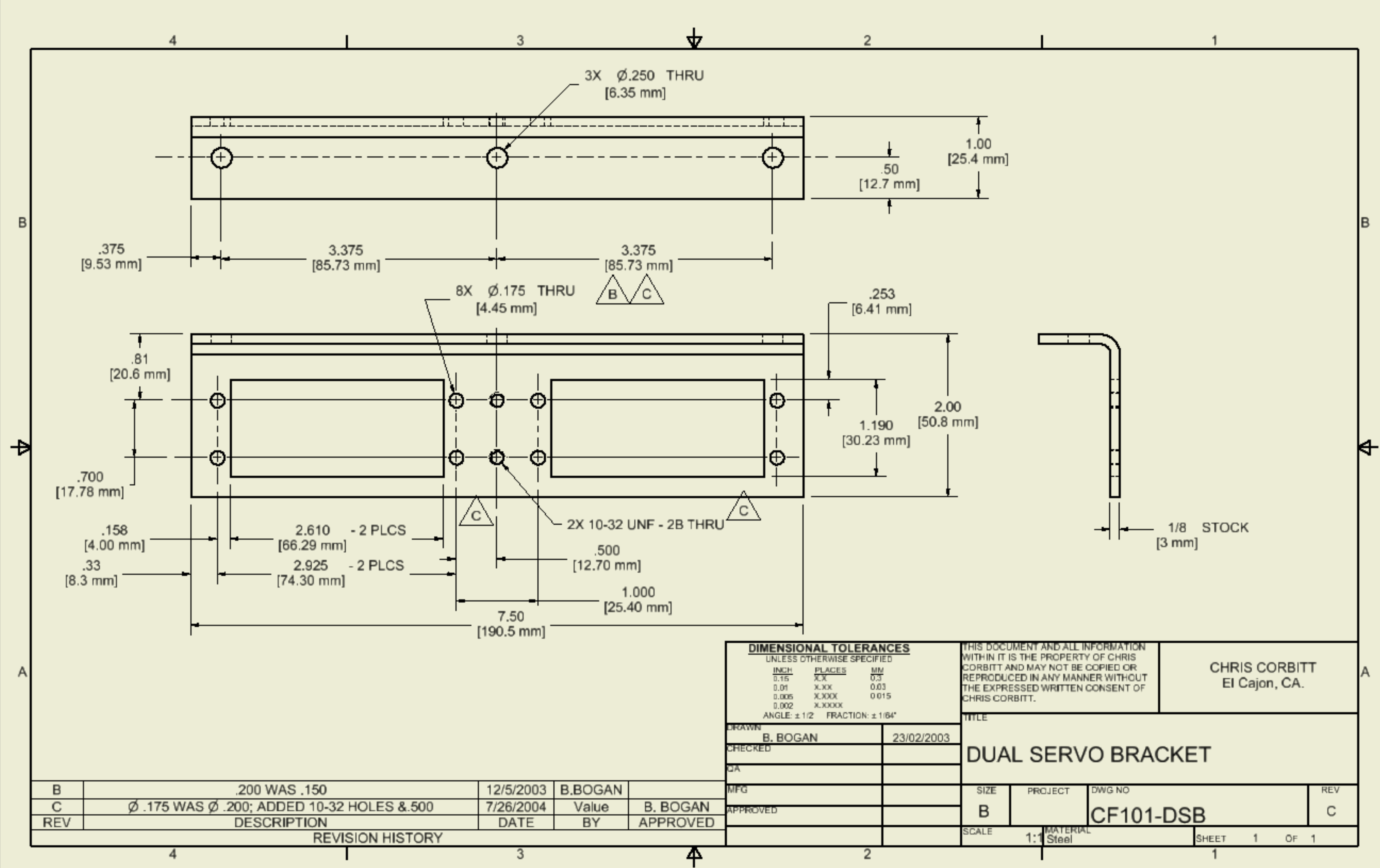
Model x Vault +

CF101-DSB.dwg

Drawing Resources

Sheet:1

- Default Border
- TIBROC
- VIEW2:DUAL SERVO BRACKET.ipt
- REVISION HISTORY



<b>DIMENSIONAL TOLERANCES</b> UNLESS OTHERWISE SPECIFIED			THIS DOCUMENT AND ALL INFORMATION WITHIN IT IS THE PROPERTY OF CHRIS CORBITT AND MAY NOT BE COPIED OR REPRODUCED IN ANY MANNER WITHOUT THE EXPRESSED WRITTEN CONSENT OF CHRIS CORBITT.			CHRIS CORBITT El Cajon, CA.		
INCH	PLACES	MM						
0.15	X.X	0.3						
0.01	X.XX	0.03						
0.005	X.XXX	0.015						
0.002	X.XXXX							
ANGLE: ± 1/2° FRACTION: ± 1/64"			TITLE					
DRAWN B. BOGAN		23/02/2003		DUAL SERVO BRACKET				
CHECKED								
QA								
MFG				SIZE	PROJECT	DWG NO		REV
APPROVED				B		CF101-DSB		C
				SCALE 1:1		MATERIAL Steel		SHEET 1 OF 1

REV	DESCRIPTION	DATE	BY	APPROVED
B	.200 WAS .150	12/5/2003	B.BOGAN	
C	Ø .175 WAS Ø .200; ADDED 10-32 HOLES & .500	7/26/2004	Value	B. BOGAN
REVISION HISTORY				

FilePlace ViewsAnnotateSketchToolsManageViewEnvironmentsGet StartedVaultCollaborate

BaseProjectedAuxiliarySectionDetailOverlayNailboardConnector

DraftBreakBreak OutSliceCropHorizontalStart SketchNew Sheet

ModifySketchSheets

Model x Vault +

CF101-LBB-LH.dwg

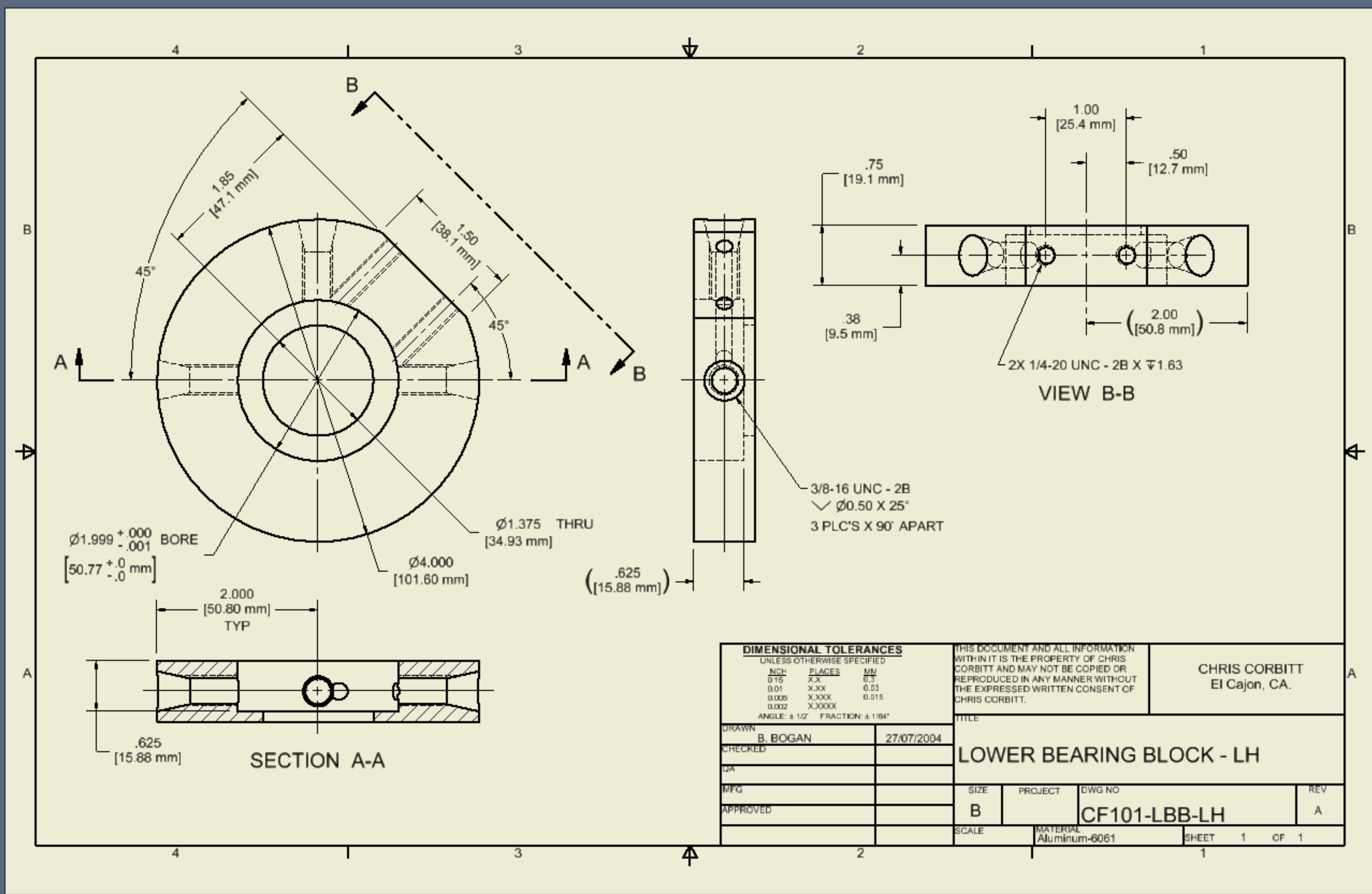
Drawing Resources

Sheet:1

Default Border

TIBROC

VIEW1:CF101-LBB-LH.ipt





File Assemble Design

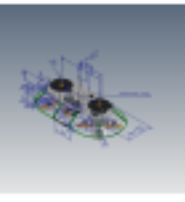









Place Create

Free Move Free Rotate

Component Position

Model X Vault +

- Assembly | Modeling
- RCCF\_01
    - Relationships
    - Representations
    - Annotations
    - Origin
    - Fasteners
    - LOWER CHASSIS
      - CF101-SA-R
      - CF101-SA-L:1
      - CF101-TS80\_DUAL:1
      - UPPER BEARING BLOCK:1
      - UPPER BEARING BLOCK:2
      - CF101-SGL-TS80\_OB:1
      - CF101-SGL-TS80\_OBO:1
      - CF101-CSO:1
      - CF101-CSO:2
      - CF101-CSO:3
      - CF101-CSO:4
      - CF101-CSO:5
      - CF101-CSO:6
      - CF101-CSO:7
      - CF101-CSO:8
      - STABILIZER BRACKET:1
      - STABILIZER BRACKET:2
      - Rod End Sphere10-32\_A:2
      - Rod End Sphere10-32\_A:1
      - YAW GUIDE:1
      - YAW GUIDE:2
      - Rod End Sphere10-32\_A:3
      - Rod End Sphere10-32\_A:4
      - Rod End Sphere10-32\_A:5
      - Rod End Sphere10-32\_A:6

Bill of Materials [RCCF-CF101.iam]													
Model Data Structured Parts Only													
Item	Thumbnail	Part Number	BOM Structure	Unit ...	Q...	Title	Description	REV	Material	Mass	Vendor	Author	
1		RCCF-101	Normal	Each	1	RCCF Assembly	Lower Sub-Assembly	A		24.292 kg	Design Specific		
2		RCCF_02	Normal	Each	1		Upper Sub-Assembly	A		N/A	Design Specific	Bill Bogan	
7		CF101-CVR	Normal	Each	1		Main Cover Assembly	A		N/A	Design Specific	Bill Bogan	
3		Rod End Sphere10-...	Normal	Each	2		ROD END SPHERE	A	Default	0.002 lbmass	Non-Design Specific	Bill Bogan	
4		10-32 Male Sph Ro...	Normal	Each	12		Male Sphere Rod End	A	Brass, So...	0.016 lbmass	Non-Design Specific	Bill Bogan	
5		CF101-RLL	Normal	Each	2	LINK, LONG	Tie Rod	A	Stainless ...	0.059 lbmass	Non-Design Specific	B. BOGAN	
6		CF101-RLM	Normal	Each	4	LINK, MEDIUM	Tie Rod	A	Stainless ...	0.039 lbmass	Non-Design Specific	B. BOGAN	
8		SHAFT COUPLING	Normal	Each	1		Shaft Coupling	A	Default	0.013 lbmass	Non-Design Specific	B. BOGAN	
9		SHAFT-THREADED_01	Normal	Each	1		Threaded Shaft	A	Default	0.013 lbmass	Non-Design Specific	B. BOGAN	
10		RETAINER WASHER	Normal	Each	1		Retaining Washer	A	Default	0.003 lbmass	Non-Design Specific	B. BOGAN	



File Assemble Design Annotate 3D Model Sketch Inspect Tools CAM Manage View Environments Electromechanical Get Started Vault Collaborate

Bolted Connection Clevis Pin Fasten

Change Trim To Frame Reuse Miter Trim/Extend Change Reuse Notch Lengthen/Shorten Frame

Frame Analysis Shaft Spur Gear Power Transmission Bearing V-Belts Key Disc Cam Parallel Splines O-Ring Compression Extension Belleville Torsion Spring

Model X Vault +

Assembly | Modeling

CF101-SA-R.iam

- Relationships
- Representations
- Origin
- CF101-LBB-RH:1
- TROWEL SPIDER
- LOWER UNIVERSAL
- TROWEL WELDMENT:1
- TROWEL WELDMENT:2
- TROWEL WELDMENT:3
- TROWEL WELDMENT:4
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- TROWEL ARM
- TROWEL ARM:2
- TROWEL ARM:3
- TROWEL ARM:4
- Bushing\_500\_ID:1
- Bushing\_500\_ID:2
- Bushing\_500\_ID:3
- Bushing\_500\_ID:4
- PITCH CONTROL ARM-L:1
- PITCH CONTROL ARM-L:2
- PITCH CONTROL ARM-L:3
- PITCH CONTROL ARM-L:4
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- Hexagon Socket Head Cap Screw - Inch
- BEARING 100ID/500OD/35MM L





FilePlace ViewsAnnotateSketchToolsManageViewEnvironmentsGet StartedVaultCollaborate

Dimension

Baseline  
Ordinate  
Chain

Feature Notes

Hole and Thread

Chamfer  
Punch  
Bend

Text

Text  
Leader Text

Insert  
Sketch Symbol

Surface  
Weldi...  
Impor...  
Cater...

Retrieve Model Annotations

Start Sketch

Parts List

Hole  
Revision  
General

Balloon

Edit Layers

Layer  
Style

Format

Model x Vault +

CF101-Trowel Spider.dwg

Drawing Resources

Sheet:1

Default Border

TIBROC

VIEW3:TROWEL SPIDER.ipt

VIEW4:TROWEL SPIDER.ipt

VIEW5:TROWEL SPIDER.ipt

Sketch1

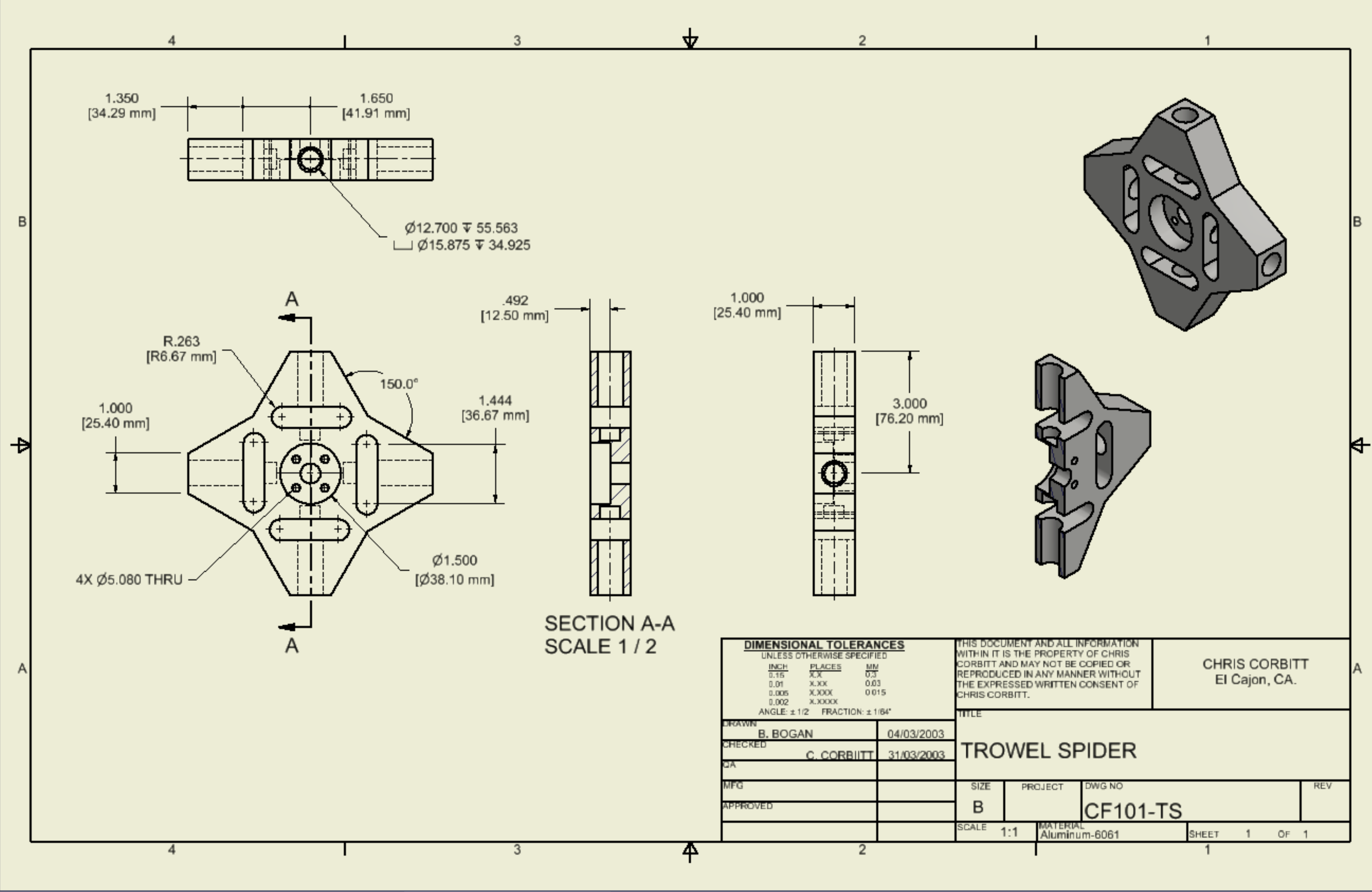
A:TROWEL SPIDER.ipt

VIEW7:TROWEL SPIDER.ipt

TROWEL SPIDER.ipt

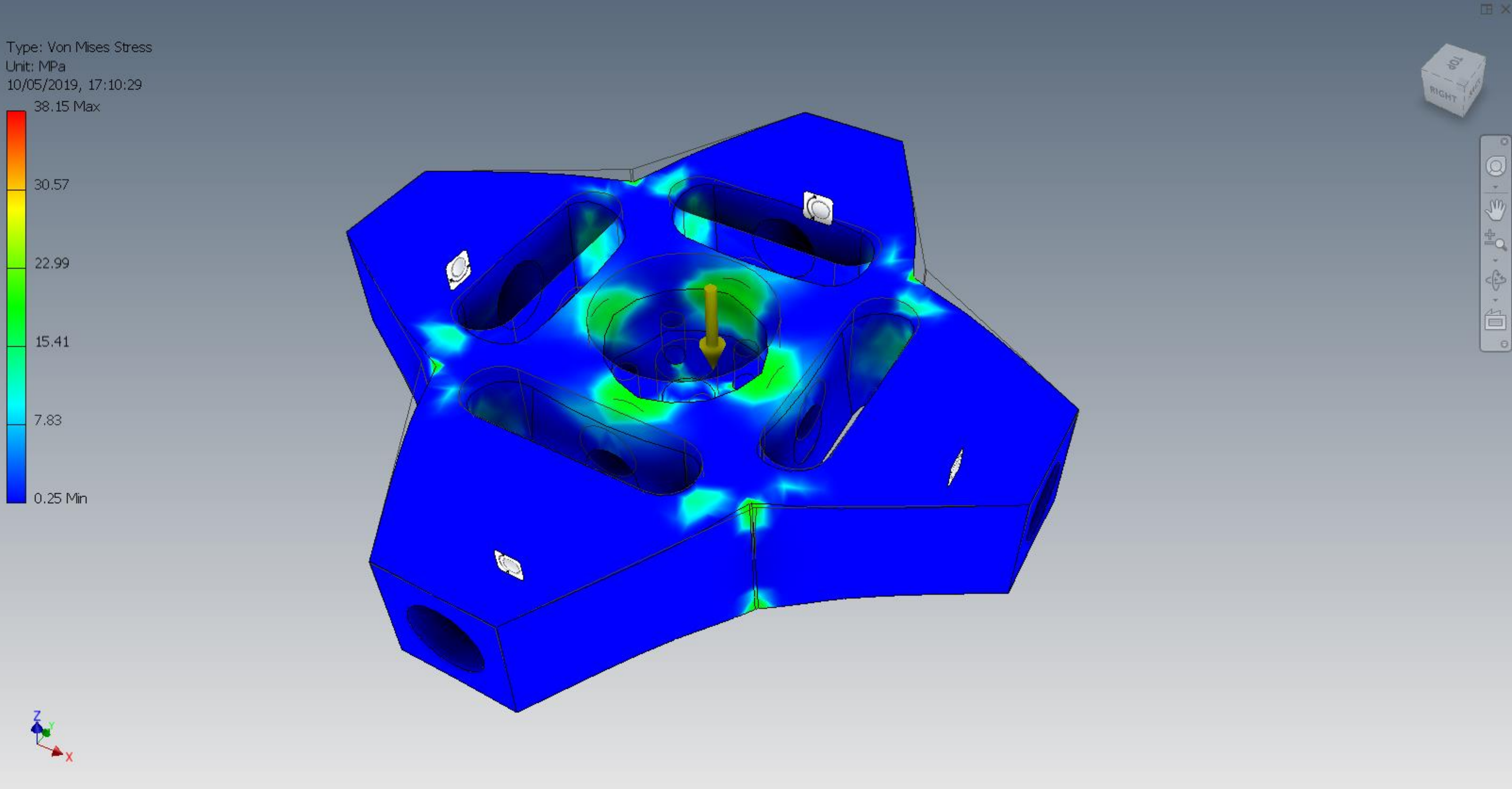
TROWEL SPIDER.ipt

VIEW6:TROWEL SPIDER.ipt

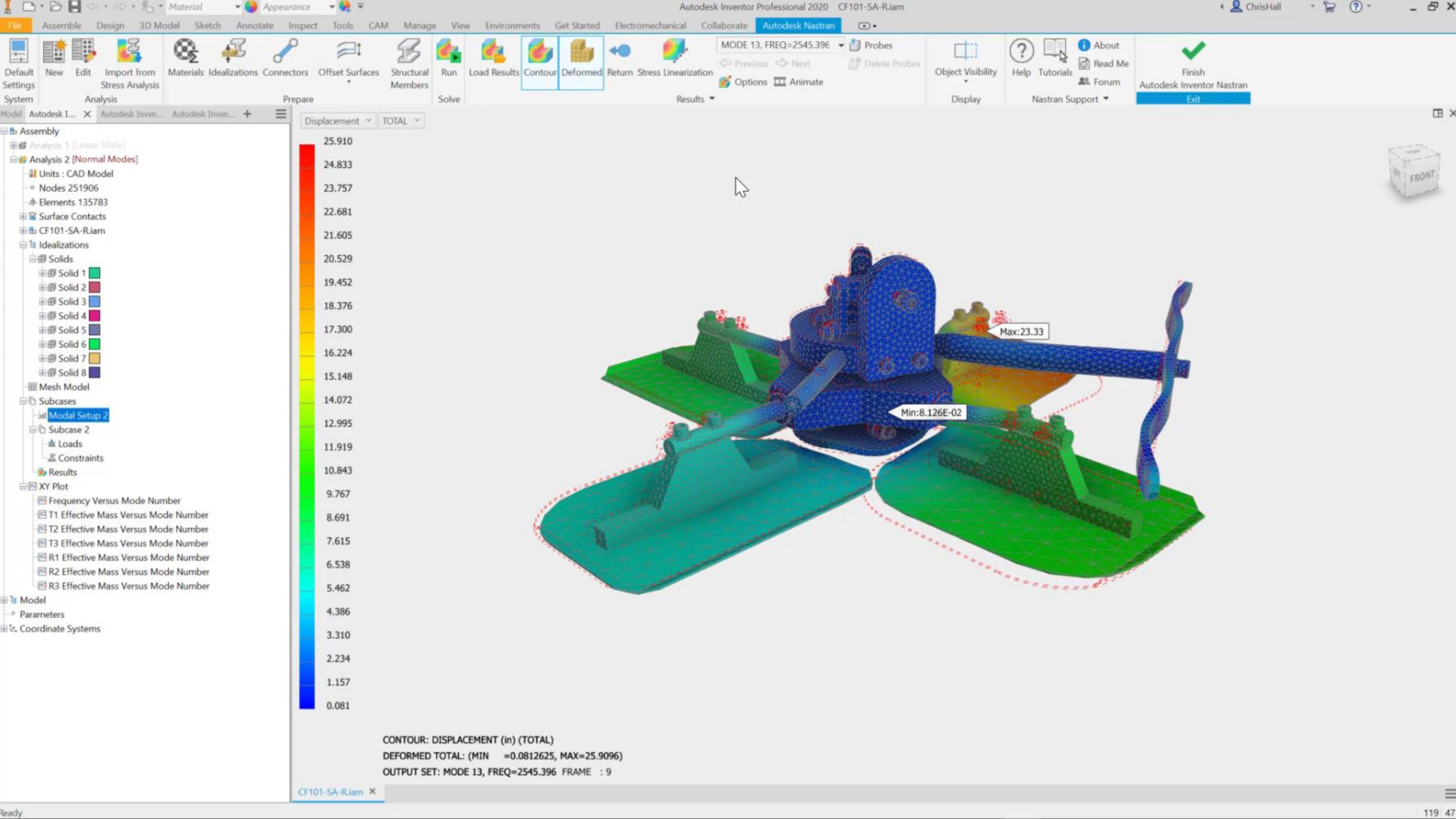




- Model X Vault CAM +
- Modeling | Study
- TROWEL SPIDER.ipt
    - Static Analysis:1
      - TROWEL SPIDER.ipt
        - Material
        - Constraints
        - Loads
          - Force:1
        - Contacts
        - Mesh
        - Results
          - ☒ Von Mises Stress
          - 1st Principal Stress
          - 3rd Principal Stress
          - Displacement
          - Safety Factor
        - Stress
        - Displacement
        - Strain









- Model X Vault +
- Assembly | Modeling
- CF101-SA-R.iam
    - Relationships
    - Representations
    - Origin
    - CF101-LBB-RH:1
    - TROWEL SPIDER
    - LOWER UNIVERSAL
    - TROWEL WELDMENT:1
    - TROWEL WELDMENT:2
    - TROWEL WELDMENT:3
    - TROWEL WELDMENT:4
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - TROWEL ARM
    - TROWEL ARM:2
    - TROWEL ARM:3
    - TROWEL ARM:4
    - Bushing\_500\_ID:1
    - Bushing\_500\_ID:2
    - Bushing\_500\_ID:3
    - Bushing\_500\_ID:4
    - PITCH CONTROL ARM-L:1
    - PITCH CONTROL ARM-L:2
    - PITCH CONTROL ARM-L:3
    - PITCH CONTROL ARM-L:4
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - Hexagon Socket Head Cap Screw - Inch
    - BEARING 100MMX50MM CF101-SA-R





Autodesk Vault Professional 2020

File Edit View Go Tools Actions Help

New

Report...

Plot...

Check In...

Find...

Share View

Download from Cloud Drive

Upload to Cloud Drive

SteveB

Layout

Workspace Sync...

Change Category...

Change State...

Change Revision...

Home

Balmoral

Deep Blue

FT1001

High Level Security Lighting M

Honda Civic 1.6

LG1001

Libraries

PP2505

PRJ0007

PRJ0014

PRJ1001

PRJ1002

PRJ1003

PRJ1005

PRJ4567

PRJ9009

RC1850

RCCF Drawings

RCCF Library

RCCF Standards

RCCF Suppliers

RCCF-CF101

SB9100

SB9980

SBT4500

Simons Project

RCCF-CF...

Search RCCF-CF101

Name	Part Number	Title	State	Revision	Author	Checked Out By			
CF101-LBB-LH-WLD.iam	CF101-LBB-LH-WLD		Work in Progress	A	B.BOGAN				
CF101-LBB-RH.iam	CF101-LBB-RH		Work in Progress	A	Bill Bogan				
CF101-LBB-RH-WLD.iam	CF101-LBB-RH-WLD		Work in Progress	A	B.BOGAN				
CF101-SA-L.iam	CF101-SA-L		Work in Progress	A	Bill Bogan				
CF101-SA-R.iam	CF101-SA-R		Work in Progress	A	Bill Bogan	Steve Bedder		+	
Cover.ipt	Cover	CHASSIS SHROUD	Work in Progress	A	B. BOGAN				
GUARD SUPPORT.ipt	GUARD SUPPORT	GUARD SUPPORT	Work in Progress	A	B. BOGAN				
GUARD1.ipt	GUARD1	TROWEL ASSEMBLY GUARD	Work in Progress	A	B. BOGAN				
LOWER CHASSIS.ipt	LOWER CHASSIS	LOWER CHASSIS	Work in Progress	A	B.BOGAN				
RCCF_01.iam	RCCF-101	RCCF Assembly	Work in Progress	A		Steve Bedder			
RCCF_02.iam	RCCF_02		Work in Progress	A	Bill Bogan				
TROWEL ARM.ipt	TROWEL ARM	TROWEL ARM	Work in Progress	A	B. BOGAN				
TROWEL SPIDER.ipt	CF101-TS	TROWEL SPIDER	Work in Progress	A	B. BOGAN				
TROWEL SUPPORT.ipt	TROWEL SUPPORT	TROWEL SUPPORT	Work in Progress	A	B. BOGAN				
TROWEL WELDMENT.iam	TROWEL WELDMENT	TROWEL WELDMENT	Work in Progress	A	B. BOGAN				

History

Uses

Where Used

Change Order



Preview

Fusion Lifecycle

Number of versions: 2 (Local = Version #2)

Number of revisions: 1

Show all versions

Thumbnail	File Name	Revision	State (Historical)	Created By	Checked In	Comment
	TROWEL SPIDER.ipt	A	Work in Progress	Steve Bedder	10/05/2019 12:05	Updated internal corner rounds
	TROWEL SPIDER.ipt	A	Work in Progress	Steve Bedder	10/05/2019 10:51	Added to Vault

Mv Worklist

ECO-000002 (16/11/2017)

ECO-000004 (10/04/2018)

ECO000115 (06/10/2018)

Mv Shortcuts

D-621-804.iam

\_GA-000-000-F.iam

200-354.iam

Add new group

Home

Project Explorer

Item Master

Change Order List

20 Object(s) (1 selected)

localhost Engineering Data Steve Bedder

# The Output



AutoSave Off														CF101-SA-R BoM Rev A.xlsx - Excel														Steve Bedder					
FileHomeInsertPage LayoutFormulasDataReviewViewHelpAutodesk VaultTell me what you want to do														Share																			
ClipboardFontAlignmentNumberStylesCellsEditing																																	
M31																																	
	A	B	C	D	E	F	G	H	I	J	K	L	M																				
1	Item	Part Number	BOM Structure	Unit QTY	QTY	Title	Description	Material	Mass	REV	Author																						
2	1	CF101-TS	Normal	1	1	TROWEL SPIDER	TROWEL SPIDER	Aluminum-6061	591.440 g		B. BOGAN																						
3	2	CF101-LUJ	Normal	1	1	LOWER UNIVERSAL	LOWER UNIVERSAL JOINT	Stainless Steel, 303	349.760 g		B. BOGAN																						
4	4	TROWEL ARM	Normal	1	4	TROWEL ARM	TROWEL ARM	Stainless Steel, 303	126.339 g		B. BOGAN																						
5	5	Bushing_500_ID	Normal	1	4		BUSHING - 1/2 ID	Bronze, Soft Tin	0.042 lbmass		Bill Bogan																						
6	6	CF101-PCA-L	Normal	1	4	PITCH CONTROL ARM - LEFT	PITCH CONTROL ARM - LEFT	Steel	0.010 kg	A	B. BOGAN																						
7	8	CF101-PP-BRG-188-50	Normal	1	10	BEARING	BEARING-188IDX500ODx250W	Default	0.001 lbmass		B. BOGAN																						
8	9	CF101-TSO	Normal	1	4	TROWEL STANDOFF	TROWEL STANDOFF	Aluminum-6061	0.054 kg		B. BOGAN																						
9	10	TROWEL WELDMENT	Normal	1	4	TROWEL WELDMENT	TROWEL WELDMENT	Welded Aluminum-6061	0.968 lbmass		B. BOGAN																						
10	12	CF101-PP-10-24-LN	Normal	1	4	LOCK NUT	LOCK NUT	Default	0.001 lbmass		B. BOGAN																						
11	13	CF101-PCRD	Normal	1	1	PITCH CONTROL ROD	PITCH CONTROL ROD	Stainless Steel, 303	84.356 g	A	B. BOGAN																						
12	14	CF101-TPP	Normal	1	1	PITCH PLATE	TROWEL PITCH PLATE	Stainless Steel, 303	0.656 lbmass	A	B. BOGAN																						
13	16	CF101-PCR	Normal	1	1	PITCH RING	PITCH CONTROL RING	Stainless Steel, 303	101.814 g	B	B. BOGAN																						
14	17	CF101-TPB	Normal	1	1	PITCH BUSHING	PITCH BUSHING	Bronze, Oil Impregnated	83.448 g		B. BOGAN																						
15	18	CF101-PCS-RH	Normal	1	1	PITCH CONTROL SCREW - RH	Pitch Control Screw - Right Hand	Stainless Steel, 303	0.043 lbmass	A	B. BOGAN																						
16	19	CF101-PNB-R	Normal	1	1	PITCH NUT - RH	PITCH NUT - RH	Stainless Steel, 303	0.128 lbmass	B	B. BOGAN																						
17	20	CF101-PCL	Normal	1	2	PITCH LEVER	PITCH CONTROL LEVER	Steel	0.029 kg	A	B. BOGAN																						
18	22	CF101-RLS	Normal	1	1	LINK, SHORT	LINK, SHORT	Stainless Steel, 303	0.016 lbmass	A	B. BOGAN																						
19	26	CF101-LBB-RH	Normal	1	1		TROWEL ASSEMBLY		1.106 lbmass		Bill Bogan																						
20	27	CF101-GMAM	Normal	1	1	GEAR MOTOR ADAPTER MOUNT	GEAR MOTOR ADAPTER MOUNT	Aluminum-6061 T6	0.271 lbmass	D	B. BOGAN																						
21	28	CF101-WSHR-THN	Normal	1	1		WASHER, THIN	Steel, Mild	0.005 lbmass	A	Bill Bogan																						
22	29	CF101-SPCR-YB	Normal	1	1		SPACER - YAW BAR	Nylon-6/6	0.001 lbmass		Bill Bogan																						
23	30	CF101-BSHG-YB	Normal	1	1		BUSHING - YAW BAR	Bronze, Soft Tin	0.006 lbmass		Bill Bogan																						
24	31	CF-101-YB	Normal	1	1	YAW BAR	YAW BAR	Aluminum-6061	0.179 lbmass		B. BOGAN																						
25	33	CF101-PPIN	Normal	1	1	PITCH BUSHING PIN	PITCH BUSHING PIN	Default	0.002 lbmass		B. BOGAN																						
26	34	ANSI B18.3 - 10-32 UNF x 0.25, HSSSCPI	Purchased	1	1		Hexagon Socket Set Screw - Cone Point	Steel, Mild	0.001 lbmass		alid																						
27	35	ANSI B18.3 - 10-32 UNF x 0.188, HSSSCPI	Purchased	1	1		Hexagon Socket Set Screw - Cone Point	Steel, Mild	0.001 lbmass		alid																						
28	36	ANSI B18.3 - 10-32 UNF - 0.75 HS HCS	Purchased	1	4		Hexagon Socket Head Cap Screw	Steel, Mild	0.009 lbmass		B. BOGAN																						
29	37	ANSI B18.3 - 1/4 - 20 UNC - 1/2 HS HCS	Purchased	1	4		Hexagon Socket Head Cap Screw	Steel, Mild	0.013 lbmass		B. BOGAN																						
30	38	ANSI B18.3 - No. 10 - 24 UNC - 3/4 HS HCS	Purchased	1	6		Hexagon Socket Head Cap Screw	Steel, Mild	0.009 lbmass		B. BOGAN																						
31	39	ANSI B18.3 - 1/4 - 20 UNC - 2 HS HCS	Purchased	1	8		Hexagon Socket Head Cap Screw	Steel, Mild	0.034 lbmass		boganb																						
BOM																																	

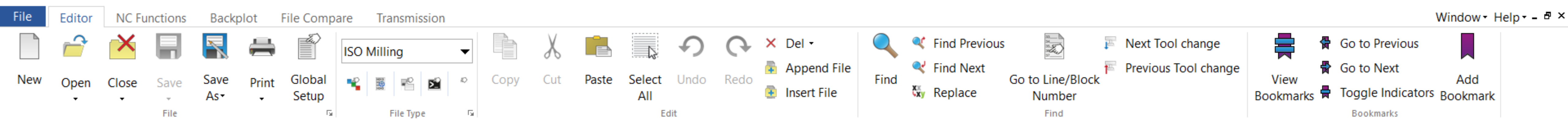


I've found most of the items for the MW-850 BoM and put them into the attached spreadsheet, it's not got everything in there as I could only get the mechanical\engineering items – I'm still waiting for the electrical and pneumatic items.

Thanks a lot

T: 07912 476 719  
E: [steve.bedder@autodesk.com](mailto:steve.bedder@autodesk.com)





Trowel Spider - 1001.nc

NC-Assistant

Collapse

Description:

Modify

Add

```
1 |
2 :1001;
3 'T1 D=10. CR=0. - ZMIN=-25.9 - flat end mill';
4 N10G90G44G75G17;
5 N11G71;
6 '2D Adaptive1';
7 N12M9;
8 N13T1M6;
9 N14S5000M3;
10 N15M8;
11 N16G0X-29.193Y-23.756;
12 N17Z15.;
13 N18Z5.;
14 N19Z-23.9;
15 N20G1Z-24.9F1000.;
16 N21X-29.186Y-23.754Z-25.021;
17 N22X-29.165Y-23.748Z-25.139;
18 N23X-29.13Y-23.738Z-25.255;
19 N24X-29.082Y-23.725Z-25.365;
20 N25X-29.022Y-23.708Z-25.468;
21 N26X-28.95Y-23.688Z-25.563;
22 N27X-28.868Y-23.665Z-25.649;
23 N28X-28.777Y-23.64Z-25.723;
24 N29X-28.677Y-23.612Z-25.785;
25 N30X-28.571Y-23.582Z-25.835;
26 N31X-28.46Y-23.551Z-25.871;
27 N32X-28.346Y-23.519Z-25.893;
28 N33X-28.23Y-23.487Z-25.9;
29 N34G3X-23.123Y-21.443I-35.109J1.099;
30 N35G1X-23.058Y-21.405;
31 N36X-22.942Y-21.311;
32 N37X-22.829Y-21.211;
33 N38X-22.721Y-21.108;
34 N39X-22.616Y-21.;
35 N40X-22.515Y-20.89;
36 N41X-22.417Y-20.776;
37 N42X-22.323Y-20.659;
38 N43X-22.232Y-20.54;
39 N44X-22.144Y-20.419;
40 N45X-22.058Y-20.295;
41 N46X-21.976Y-20.17;
42 N47X-21.896Y-20.043;
43 N48X-21.819Y-19.914;
44 N49X-21.745Y-19.784;
45 N50X-21.673Y-19.653;
46 N51X-21.603Y-19.52;
47 N52X-21.535Y-19.386;
```





## Setup Sheet for Program 1001

JOB DESCRIPTION: Setup2

DOCUMENT PATH: C:\Demo Docs\Project Workspace\Projects\RC1850\RCCF-CF101\TROWEL SPIDER.ipt

### Setup

WCS: #0

Stock:

DX: 154.4mm

DY: 154.4mm

DZ: 31.4mm

PART:

DX: 152.4mm

DY: 152.4mm

DZ: 25.4mm

Stock LOWER IN WCS #0:

X: 0mm

Y: 0mm

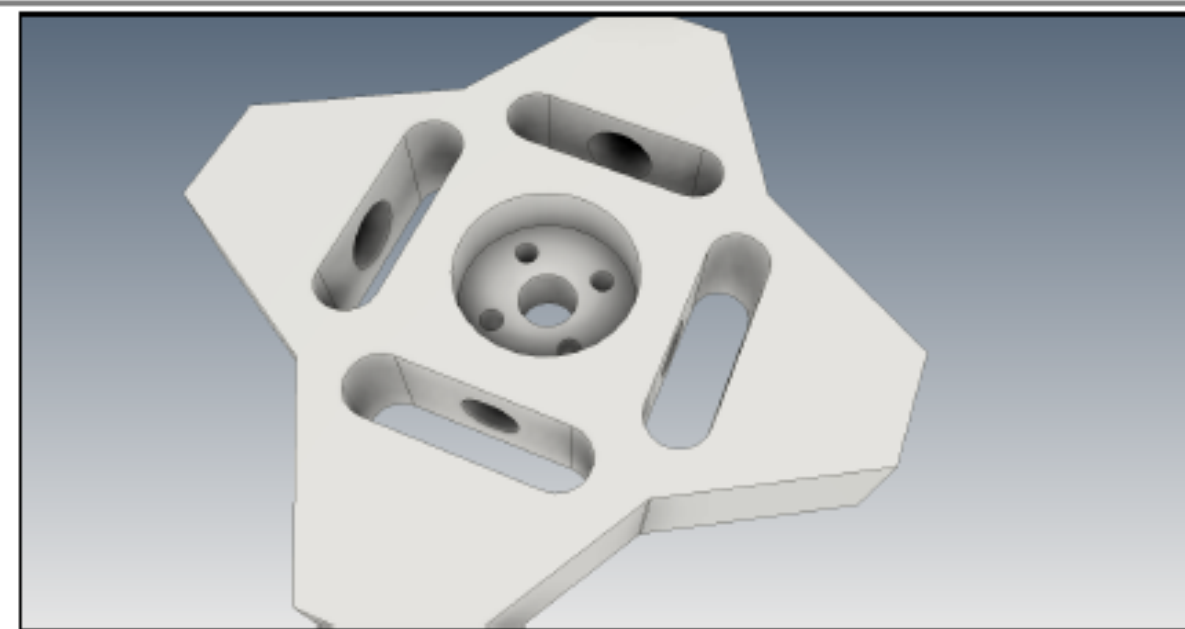
Z: -31.4mm

Stock UPPER IN WCS #0:

X: 154.4mm

Y: 154.4mm

Z: 0mm



### Total

NUMBER OF OPERATIONS: 14

NUMBER OF TOOLS: 4

TOOLS: T0 T1 T2 T13

MAXIMUM FEEDRATE: 6000mm/min

MAXIMUM SPINDLE SPEED: 30000rpm

CUTTING DISTANCE: 22262.68mm

RAPID DISTANCE: 11473.69mm

ESTIMATED CYCLE TIME: 1h:55m:18s

### Tools

T0 D0 L0

TYPE: flat end mill

DIAMETER: 8mm

LENGTH: 55mm

FLUTES: 3

DESCRIPTION: 6mm Flat Endmill

MAXIMUM FEED: 1440mm/min

MAXIMUM SPINDLE SPEED: 10000rpm

CUTTING DISTANCE: 6008.19mm

RAPID DISTANCE: 3658.07mm

ESTIMATED CYCLE TIME: 1h:28m:16s (78.6%)

HOLDER: Maritool CAT40-ER32-2.35

COMMENT: Maritool CAT40-ER32-2.35

VENDOR: Maritool

PRODUCT: CAT40-ER32-2.35

T1 D1 L1

TYPE: face mill

DIAMETER: 50mm

LENGTH: 60mm

FLUTES: 4

MAXIMUM FEED: 1000mm/min

MAXIMUM SPINDLE SPEED: 10000rpm

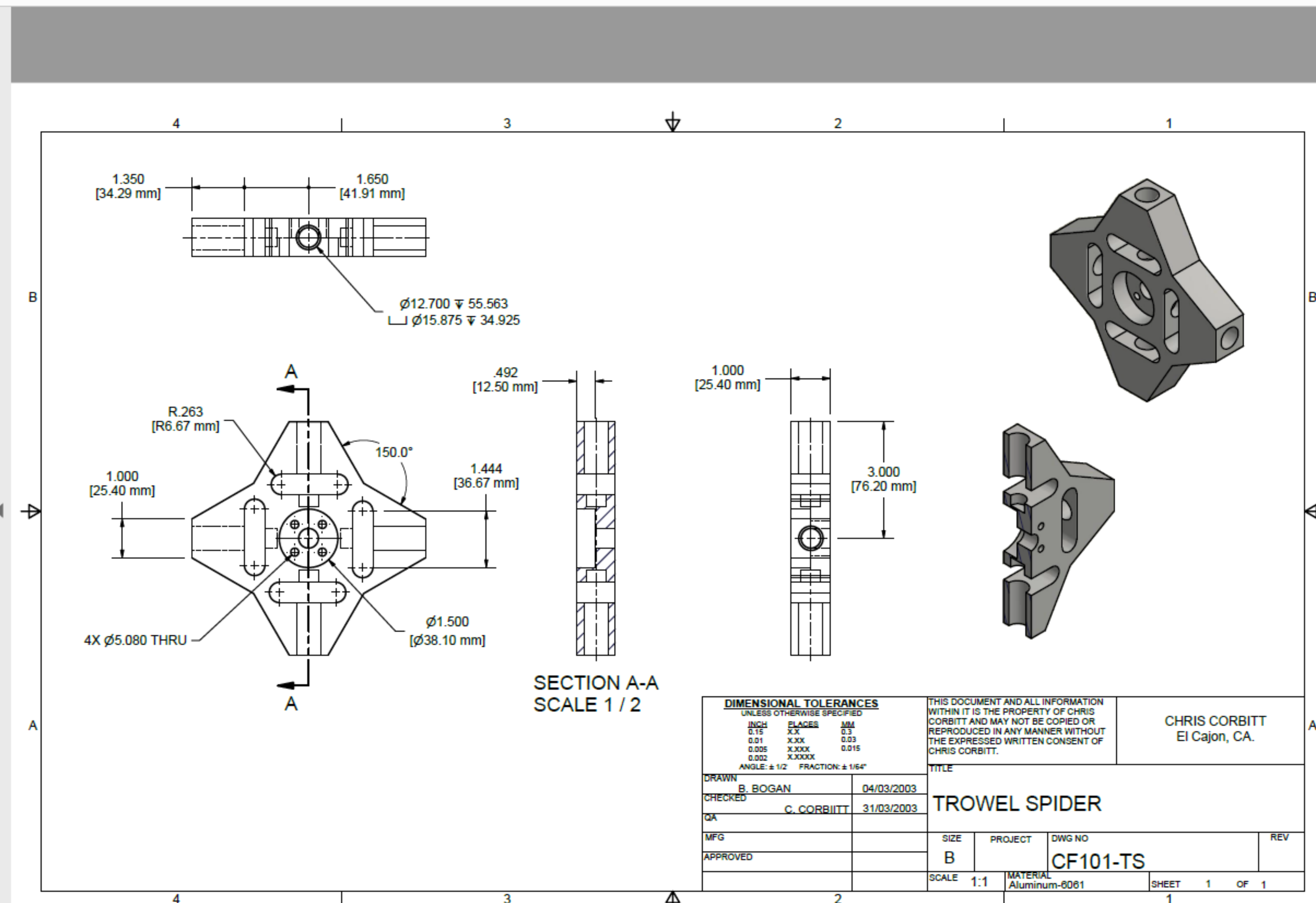
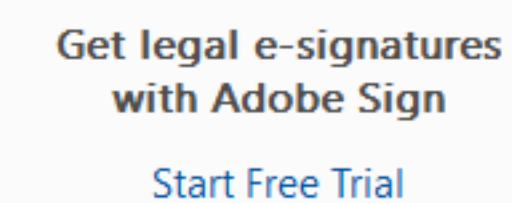
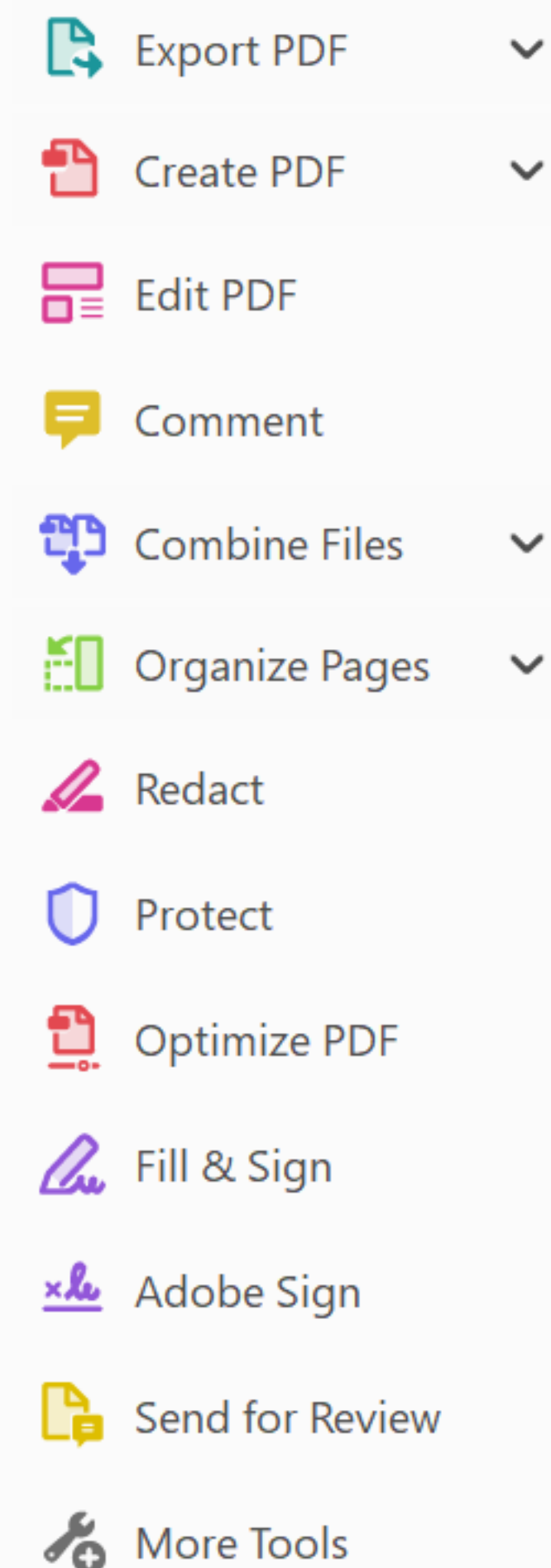
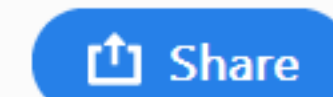
CUTTING DISTANCE: 14456.48mm

RAPID DISTANCE: 6586.56mm

ESTIMATED CYCLE TIME: 25m:12s (21.9%)

HOLDER: BT40 - B4C3-0040





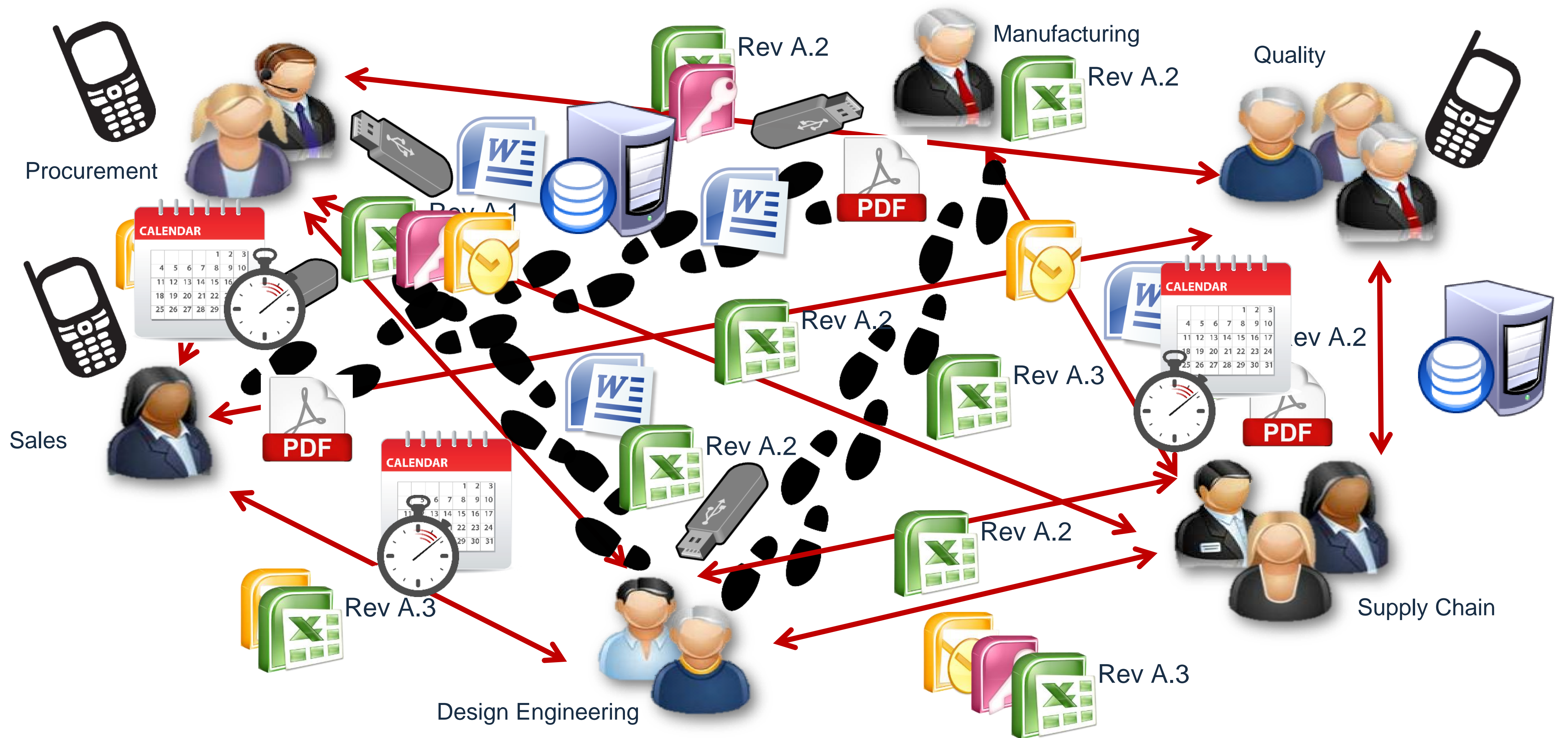


- ns |







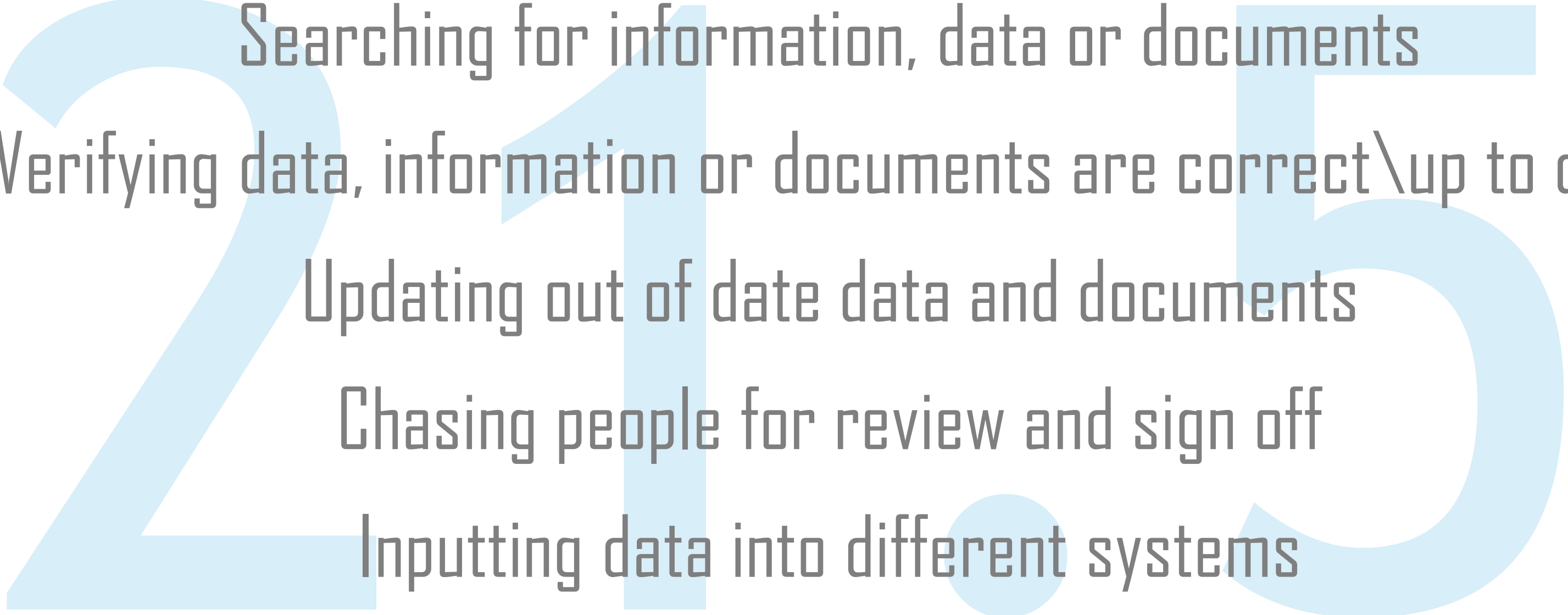




21.5

hours per person per week on potentially inefficient tasks\activities



- 
- 1 Searching for information, data or documents
  - 2 Verifying data, information or documents are correct\up to date
  - 3 Updating out of date data and documents
  - 4 Chasing people for review and sign off
  - 5 Inputting data into different systems

hours per person per week on potentially inefficient tasks\activities

2 1 5

Projects\products delivered late  
Incorrect parts manufactured\purchased  
Loss of Margin  
Loss of Reputation  
Loss of Sales

hours per person per week on inefficient tasks\activities



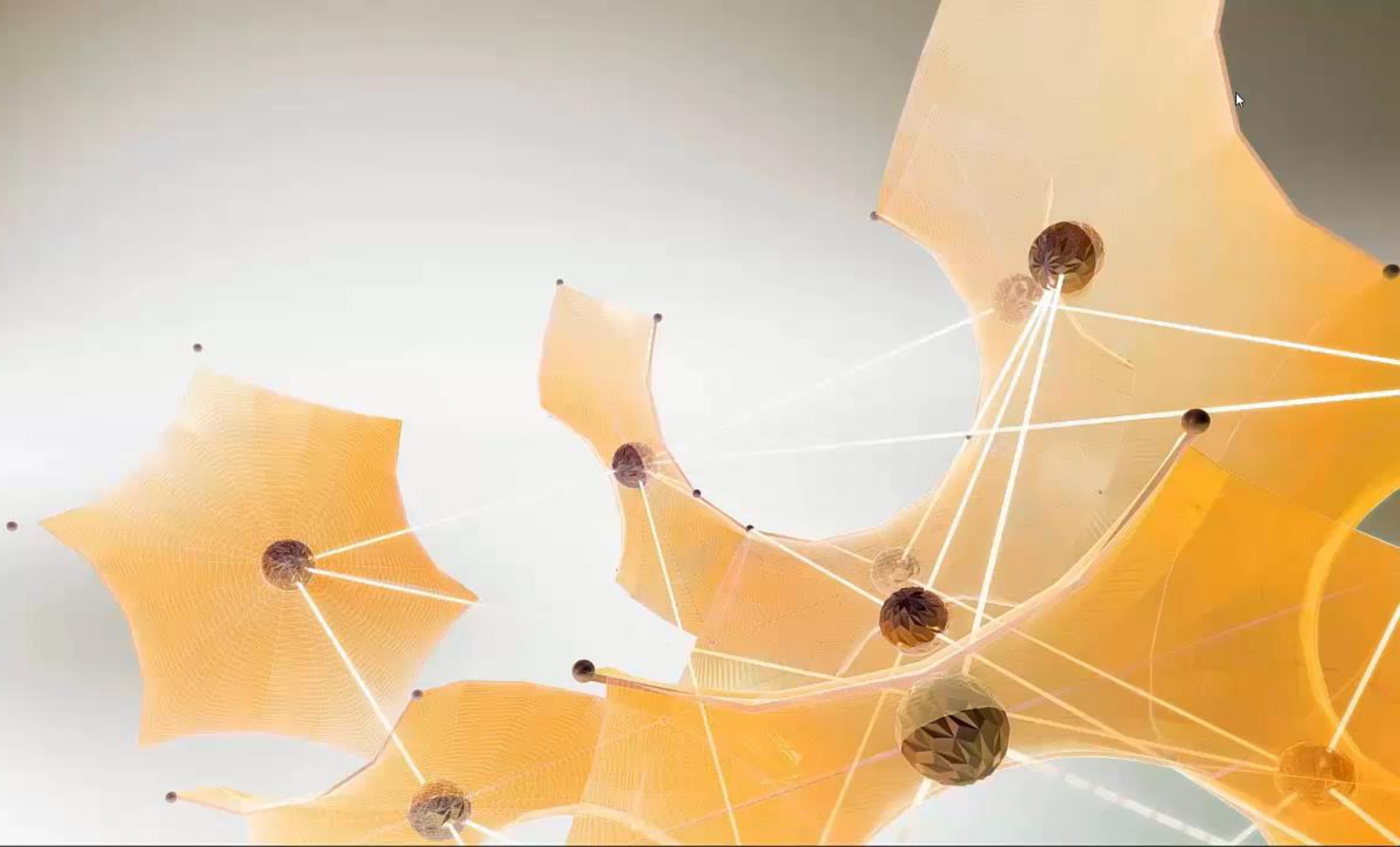
# Engineering Release: PDM to PLM Integration





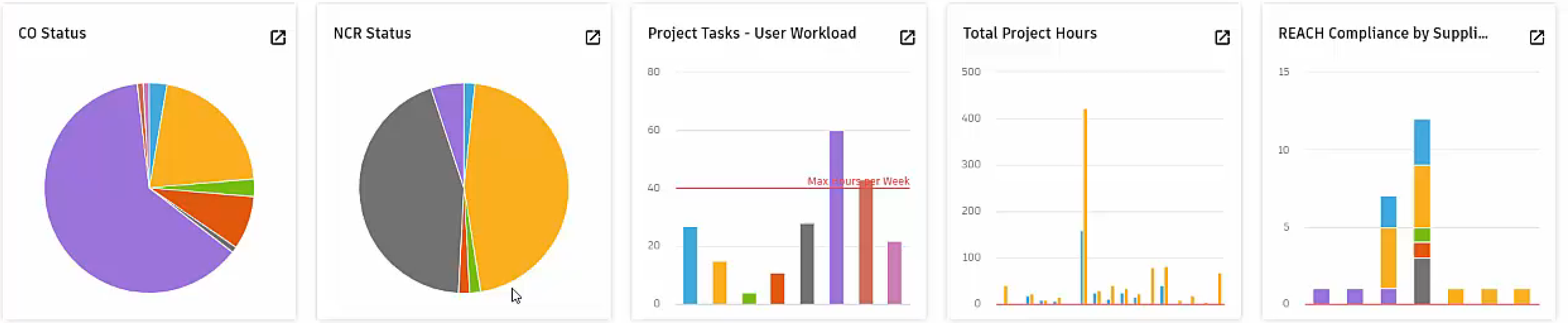






Charts

⋮ ^



My Outstanding Work

Last updated: 17/05/2019 11:43 AM 🔄 ^

🚩	👤	≡	Due Date	Item Name	Workspace	State	State Set On	State Set By
🚩			09/05/2019	- Detail Drawing	Project Tasks	Task Assigned	02/05/2019	Steven Bedder
🚩			04/05/2019	- Update Quality Plan	Project Tasks	Define Task	02/05/2019	Steven Bedder
🚩			19/04/2019	CA000167 - Automatically created from NC000183	Corrective / Preventative Act...	[00] Originated	11/04/2019	Steven Bedder
🚩			19/04/2019	CA000166 - Automatically created from NC000183	Corrective / Preventative Act...	[00] Originated	11/04/2019	Steven Bedder
				CO000263 - Update of outside diamter - 2 - Medium	Change Orders	[01a] Change in P...	11/04/2019	Steven Bedder



# CAD

2D/3D Design  
Documentation  
Design BoM  
Simulation  
Visualisation  
Automation

# PDM

Doc Control  
Version Mgt  
Eng Release  
Copy Design  
Design Review  
ECO

# PLM

Item & BoM  
MFG BoM  
BoM Views  
MFG Release  
Lifecycle Mgt  
2D/3D Review

CF101-LBB-RH-WLD.iam CF101-LBB-RH-WLD

CF101-SA-R.iam CF101-SA-R

TROWEL ARM.ipt TRO

TROWEL SPIDER.ipt TRO

TROWEL SUPPORT.ipt TRO

TROWEL WELDMENT.iam ENT TRO

TROWEL.ipt TRO

YAW CONTROL ARM.ipt ARM YAW

CF101-CVR.iam

CF101-LBB-LH.iam LOW

History Uses Where Used C

**Number of versions:** 9

ion Lifecy

ion #9)

**Open**

- View in Window...
- Insert into CAD
- Assign / Update Item...
- Go To Item
- Open Item...
- Check In...
- Get...
- Check Out
- Undo Check Out...
- Change State...**
- Share View



**AUTODESK FUSION LIFECYCLE**

Home > CAD Items

**CF101-SA-R** [REV:w] v

Pending Unreleased

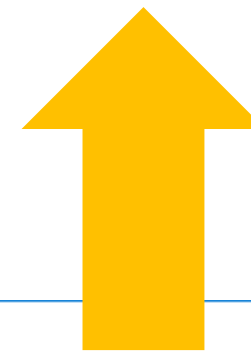
Item Details Bill of Materials (42) Where Used (1)

Edit Add Remove ...

#	Descriptor	Status
0.0	CF101-SA-R [REV:w]	
1.1	CF101-TS [REV:w]	Unreleased
1.2	CF101-LUJ [REV:w]	Unreleased
1.3	TROWEL ARM [REV:A]	Latest
1.4	Bushing_500_ID [REV:w]	Unreleased
1.5	CF101-PCA-L [REV:w]	Unreleased
1.6	CF101-PP-BRG-188-50 [REV:w]	Unreleased
1.7	CF101-TSO [REV:w]	Unreleased
1.8	TROWEL WELDMENT [REV:w]	Unreleased
1.9	CF101-PP-10-24-LN [REV:w]	Unreleased
1.10	CF101-PCRD [REV:w]	Unreleased
1.11	CF101-TPP [REV:w]	Unreleased
1.12	CF101-PCR [REV:w]	Unreleased
1.13	CF101-TDR [REV:w]	Unreleased

**AUTODESK**

javascript;



**Job Server Queue**

Close Queued After: Re-Submit Remove Reset to Queue Take Site Ownership ?

ID	Priority	Status	Description	Submitted Date	Submitted By
1182081	1	Pending	Fusion Lifecycle Integration Job: FLC Job Queue Handler	30/04/2019 21:52:26	Autodesk System
1182082	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:07:41	Autodesk System
1182083	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:08:41	Autodesk System
1182084	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:08:41	Autodesk System
1182085	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:08:41	Autodesk System
1182086	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:08:41	Autodesk System
1182087	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:09:41	Autodesk System
1182088	1	Pending	Synchronizing Vault projects/folders based on Fusion Lifecycle items	01/05/2019 09:09:41	Autodesk System

Details

Job Type: Description:

Submitted Status:

Submitted Job

140 Object(s) (0 selected)



# Manufacturing Release: PLM to ERP Integration



CF101-SA-R - Fusion Lifecycle

+

https://adskbedder.autodeskplm360.net/plm/workspaces/81/items/itemDetails?view=full&tab=details&mode=view&itemId=urn%60adsk,plm%60tenant,workspace,item%60ADSKBEDDER,81,18...

AUTODESK FUSION LIFECYCLE

Home > CAD Items

CF101-SA-R [REV:w] v

Pending  Unreleased

Item Details

Bill of Materials (42)

Where Used (1)

Associated Change Orders (0)

Attachments (2)

Change Log


Edit

Details (1 of 5) i

Item Number

CF101-SA-R

Preview



Vault Document Link

Click to go to Vault document....

Part Number

CF101-SA-R

CAD File Name

CF101-SA-R.iam

Title

Trowel Assembly

Description

Right hand side trowel general assembly

Weight

5.300 (kilograms) (11.6845 pounds)

Category

Assembly

Originator

Bill Bogan

Material

various

Units

Each

AUTODESK

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AUTODESK FUSION LIFECYCLE



Approval

[03] Change Order

Approved for

Implement

Change Order Implemented

[04] Change Order

Implementation

Change Order Implemented

Comments

Final approval

Close

Save step

the item

flow

only the

this final

Access Supply Chain - Access Demo

FileHomeDebtorsCreditorsFinancialsSalesPurchasingCostingStockLot ControlWorksMRPTimeAssetsMulti Level ExplosionSystem

SaveRouteDetailExtra Text

By-ProductsCosted Bill PrintPrint

RecordReport & AnalyseView

Multi Level Explosion

CF101-SA-R A TROWEL ASSEMBLY based on : 1.00000EA

ANSI B18.22.1 - A ANSI B18.22.1 - No. 10 - narrow - Type B [REV:A] Qty : 12.00000EA

ANSI B18.3 - 1/4 A ANSI B18.3 - 1/4-20 UNC x 0.375, HSSSCI [REV:A] Qty : 1.00000EA

ANSI B18.3 - 10- A ANSI B18.3 - 10-32 UNF - 0.75 HS HCS [REV:A] Qty : 4.00000EA

ANSI B18.3 - 5/1 A ANSI B18.3 - 5/16 - 18 UNC - 7/8 HS HCS [REV:A] Qty : 1.00000EA

ANSI B18.3 - No. A ANSI B18.3 - No. 10 - 24 UNC - 1/2 HS HCS [REV:A] Qty : 4.00000EA

ASME B18.21.1 - A ASME B18.21.1 - 1/4, RHSLW [REV:A] Qty : 8.00000EA

Bushing\_500\_ID A Bushing\_500\_ID [REV:A] Qty : 4.00000EA

CF-101-YB A CF-101-YB [REV:A] Qty : 1.00000EA

CF101-BSHG-YB A CF101-BSHG-YB [REV:A] Qty : 1.00000EA

CF101-GMAM A CF101-GMAM [REV:A] Qty : 1.00000EA

CF101-LBB-RH A CF101-LBB-RH [REV:A] Qty : 1.00000EA

CF101-LUJ A CF101-LUJ [REV:A] Qty : 1.00000EA

CF101-PCA-L A CF101-PCA-L [REV:A] Qty : 4.00000EA

CF101-PCL A CF101-PCL [REV:A] Qty : 2.00000EA

CF101-PCR A CF101-PCR [REV:A] Qty : 1.00000EA

CF101-PCRD A CF101-PCRD [REV:A] Qty : 1.00000EA

CF101-PCS-RH A CF101-PCS-RH [REV:A] Qty : 1.00000EA

CF101-PNB-R A CF101-PNB-R [REV:A] Qty : 1.00000EA

CF101-PP-10-24-L A CF101-PP-10-24-LN [REV:A] Qty : 4.00000EA

CF101-PP-BRG-188 A CF101-PP-BRG-188-50 [REV:A] Qty : 10.00000EA

CF101-PPIN A CF101-PPIN [REV:A] Qty : 1.00000EA

CF101-RLS A CF101-RLS [REV:A] Qty : 1.00000EA

CF101-SPCR-YB A CF101-SPCR-YB [REV:A] Qty : 1.00000EA

CF101-TPB A CF101-TPB [REV:A] Qty : 1.00000EA

CF101-TPP A CF101-TPP [REV:A] Qty : 1.00000EA

CF101-TS A CF101-TS [REV:A] Qty : 1.00000EA

CF101-TSO A CF101-TSO [REV:A] Qty : 4.00000EA

CF101-WSHR-THN A CF101-WSHR-THN [REV:A] Qty : 1.00000EA

TROWEL ARM A TROWEL ARM [REV:A] Qty : 4.00000EA

ALUMINIUM-6061 A Aluminium 6061 Block Qty : 4.00000EA

TROWEL WELDMENT A TROWEL WELDMENT [REV:A] Qty : 4.00000EA

SA/SA Database: DemoDB PWENGLISH Sales: C3 Purchase: C3 Nominal: C3 7.3.8.13644

VMSRVSCM.DemoDB - dbo\_ASC\_API\_PMA\_TBL - Microsoft SQL Server Management Studio

Object Explorer

APMA_UNI...	APMA_CRE...	APMA_UPD...	APMA_RES...	APMA_STA...	APMA_ACTI...	APMA_USE	APMA_PMA...	APMA_PAR...	APMA_DES...	APMA_DES...	APMA_D...
287	2016-11-07...	2016-11-07...	1	9	3		NULL	EL2056	MASTER PIR...		
288	2016-11-07...	2016-11-07...	1	9	3		NULL	EL2057	HYPERLUX L...		
289	2016-11-07...	2016-11-07...	1	9	3		NULL	EL2082	DURITE 0-6...		
290	2016-11-07...	2016-11-07...	1	9	3		NULL	EL2083	DURITE 0-6...	MOUNT BE...	
291	2016-11-07...	2016-11-07...	1	9	3		NULL	EL2084	VA100-460 ...		
292	2016-11-07...	2016-11-07...	1	9	3		NULL	FT0345	TRANSCAN ...	RECORDER ...	
293	2016-11-07...	2016-11-07...	1	9	3		NULL	FT0350	KL1432 STA...	KIT	
294	2016-11-07...	2016-11-07...	1	9	3		NULL	EL1925	PROXIMITY ...		
295	2016-11-07...	2016-11-07...	1	9	3		NULL	EL0541	CLIPS FOR R...		
296	2016-11-07...	2016-11-07...	1	9	3		NULL	AL1017	JOGGLED B...		
297	2016-11-07...	2016-11-07...	1	9	3		NULL	AL1420	CAGE WHE...		
298	2016-11-07...	2016-11-07...	1	9	3		NULL	AL1422	BRACKET F...		
299	2016-11-07...	2016-11-07...	1	9	3		NULL	AL1423	BRACKET F...	TOP	
300	2016-11-07...	2016-11-07...	1	9	3		NULL	L00040	RATCHET S...	PRINTED	
301	2016-11-07...	2016-11-07...	1	9	3		NULL	R00370	CAGE WHE...		
302	2016-11-07...	2016-11-07...	1	9	3		NULL	SP0179	FIXED UNDO...	CURTAIN E...	
303	2016-11-07...	2016-11-07...	1	9	3		NULL	DF0015	RED POLAR ...	x 2500mm	
304	2016-11-07...	2016-11-07...	1	9	3		NULL	SP0335	SACK TRUCK		
305	2016-11-07...	2016-11-07...	1	9	3		NULL	ST2634	TAIL LIFT C...	COVER	
306	2016-11-07...	2016-11-07...	1	9	3		NULL	ST2646	TAIL LIFT R...	COVER	
307	2016-11-07...	2016-11-07...	1	9	3		NULL	SP0114	BASE FOR S...		
308	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1110	WHITE NOL...	SILENT	
309	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1145	ANDERSON...	SUPPLY & FIT	
310	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1215	BACKWATC...	REVERSE KIT	
311	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1216	BRACKET F...	SENSOR	
312	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1218	FIT BACKW...	SENSOR KIT	
313	2016-11-07...	2016-11-07...	1	9	3		NULL	FT1252	MAPLE SEC...	SUPPLY & FIT	
314	2016-11-07...	2016-11-07...	1	9	3		NULL	SP0490	AXALERT PL...		
NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

# PLM

Item & BoM  
MFG BoM  
BoM Views  
MFG Release  
Lifecycle Mgt  
2D/3D Review  
Compliance  
Change Mgt

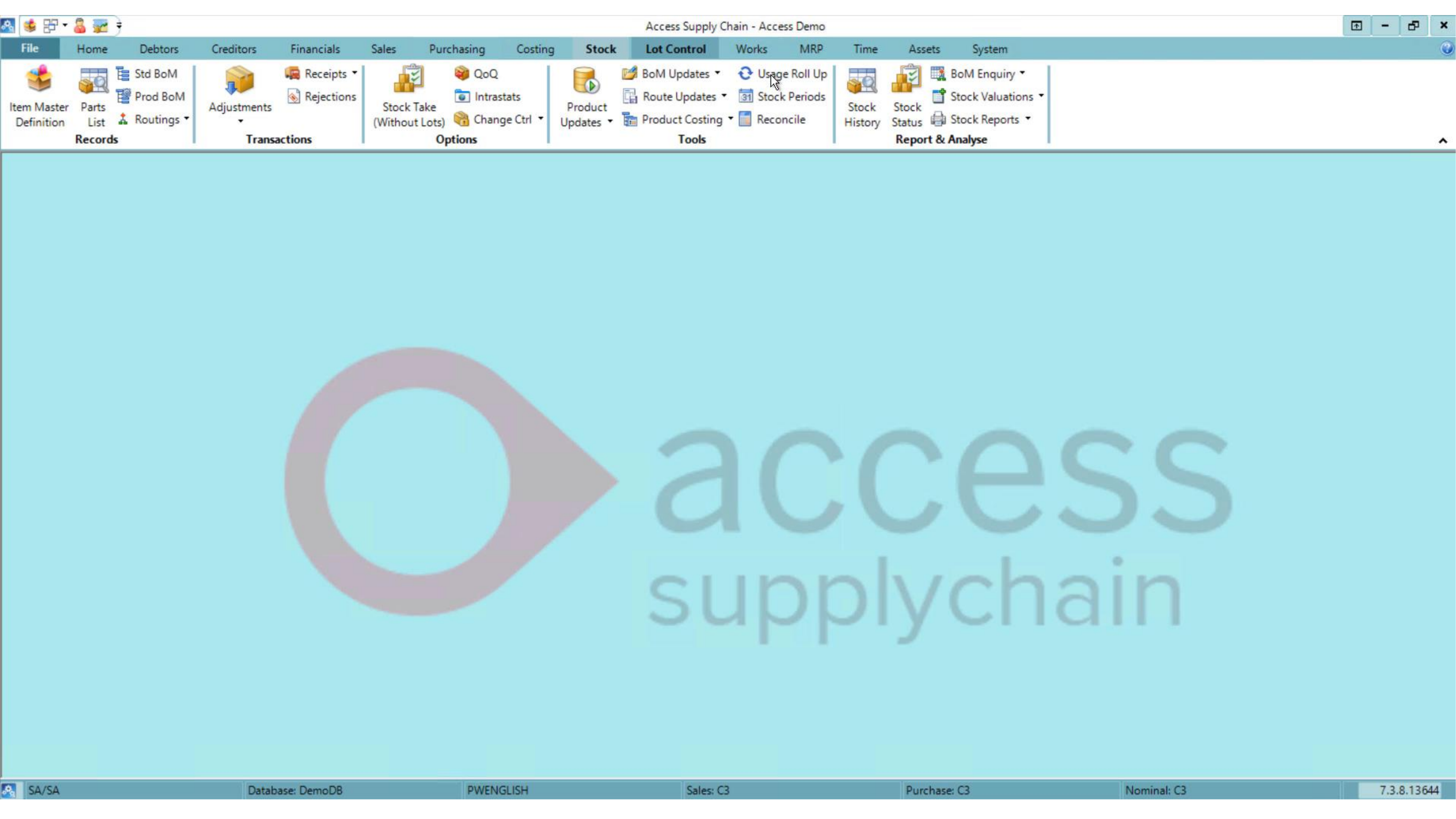
# ERP

Make, Buy, Resource  
BoM Execution  
Procurement  
Supply Chain  
Stock\Inventory  
Routing  
Materials  
Finance



# Product Execution







# Production Scheduling: PLM to APS Integration









Home &gt; CAD Items

## CF101-SA-R - Trowel Assembly

[REV:A] ▾



🔒 Locked | ⌚ 17/05/2019 | 📦 Production

Item Details

Bill of Materials (42)

Associated Change Requests (0)

Associated Change Orders (0)

Where Used (1)

Attachments (2)

Change Log

Edit

Add

Remove



Views:

Supply Chain View ▾



Supply Chain View as of Today using the Released Revisions configuration

	#	Descriptor	Status	Revision		Quantity	Primary Supplier	Cost [£]
<input type="checkbox"/>	0.0	CF101-SA-R - Trowel Assembly [REV:A]		A		0.0		
<input type="checkbox"/>	1.1	CF101-TS - TROWEL SPIDER [REV:A]	Latest	A		1.0	EV Engineering Services	18.50
<input type="checkbox"/>	1.2	CF101-LUJ - LOWER UNIVERSAL [REV:A]	Latest	A		1.0	EV Engineering Services	3.46
<input type="checkbox"/>	1.3	TROWEL SPIDER - TROWEL ARM [REV:A]	Latest	A		4.0		4.56
<input type="checkbox"/>	1.4	Bushing_500_ID - BUSHING - 1/2 ID [REV:A]	Latest	A		4.0		
<input type="checkbox"/>	1.5	CF101-PCA-L - PITCH CONTROL ARM - LEFT [REV:A]	Latest	A		4.0		
<input type="checkbox"/>	1.6	CF101-PP-BRG-188-50 - BEARING [REV:A]	Latest	A		10.0	BB Electricals Ltd	0.21
<input type="checkbox"/>	1.7	CF101-TSO - TROWEL STANDOFF [REV:A]	Latest	A		4.0		
<input type="checkbox"/>	1.8	TROWEL WELDMENT - TROWEL WELDMENT [REV:A]	Latest	A		4.0	EV Engineering Services	6.65
<input type="checkbox"/>	1.9	CF101-PP-10-24-LN - LOCK NUT [REV:A]	Latest	A		4.0		
<input type="checkbox"/>	1.10	CF101-PCRD - PITCH CONTROL ROD [REV:A]	Latest	A		1.0		
<input type="checkbox"/>	1.11	CF101-TPP - PITCH PLATE [REV:A]	Latest	A		1.0		
<input type="checkbox"/>	1.12	CF101-PCR - PITCH RING [REV:A]	Latest	A		1.0		
<input type="checkbox"/>	1.13	CF101-TBR - PITCH BUSHING [REV:A]	Latest	A		1.0		



Orchestrate Planner - Orchestrate Administrator

FileEditViewResourcesItemsOrdersCosts & OutcomesPlanningReportsToolsHelp

Zoom

Colour By: Item

Saved Views

Gantt

WO View

Agenda

Work List

Current Plan (Edited)

Add to plan date

Mon 17 Jun 2019

07:02

Add to Plan

NewEditDelete

Customer

Search

Results: 86

Deadline Date	Item Code	Order Code	Planned
24 Jul 2019 00:00	CF101-SA-R/A	11960	
17 Jul 2019 00:00	TROWEL ARM/A	11960/01	
20 Jun 2019 00:00	FM984-PA-B/A	11962	
21 Jun 2019 00:00	FM984-PA-B/A	11963	
19 Jun 2019 00:00	TR232-QA-B/A	11964	
15 Jun 2019 00:00	FM984-PA-B/A	11965	
22 Jun 2019 00:00	FM984-PA-B/A	11966	
20 Jun 2019 00:00	FM984-PA-B/A	11967	
23 Jun 2019 00:00	TR232-QA-B/A	11968	
25 Jun 2019 00:00	FM984-PA-B/A	11969	
21 Jun 2019 00:00	FM984-PA-B/A	11970	
23 Jun 2019 00:00	FM984-PA-B/A	11971	
18 Jun 2019 00:00	FM984-PA-B/A	11972	

Selected Orders

1

Selected Order Qty

4.00

Total Order Qty

432.00

Order Planner

Algorithm Planner

Sales Orders

Task Planner

Edit Tasks

Resource List

Task Overview

June

Mon 17

Tue 18

Wed 19

Thu 20

Fri 21

Sat 22

Sun 23

CNC-1 - CNC Machine - BRIDGEPORT 560 - CNC

CNC-2 - CNC Machine - EAGLE MH500 CNC MILL

CNC-3 - CNC Machine - BRIDGEPORT 560 MILL

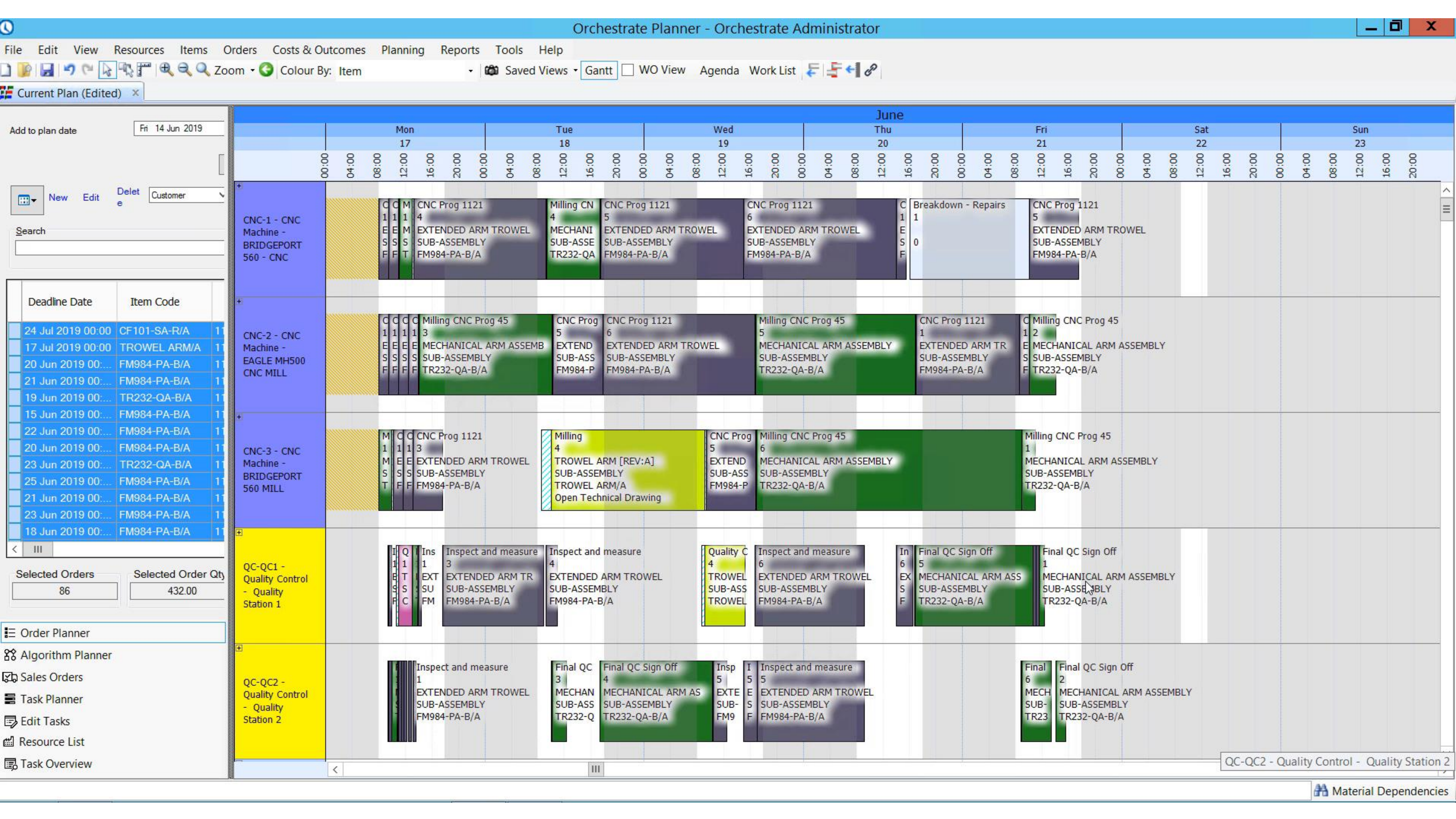
QC-QC1 - Quality Control - Quality Station 1

QC-QC2 - Quality Control - Quality Station 2

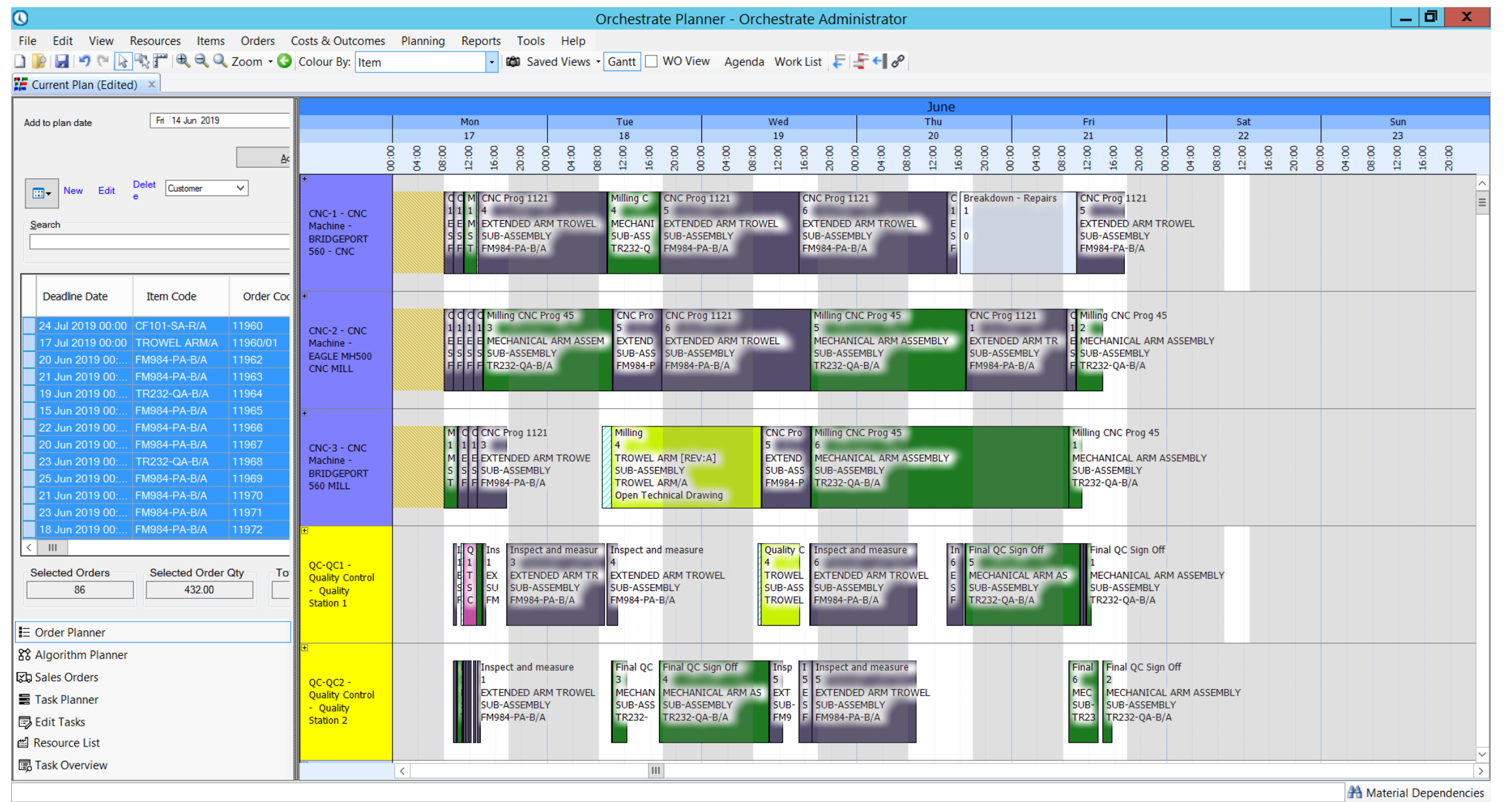
QC-QC2 - Quality Control - Quality Station 2

Material Dependencies







A large, solid yellow arrow pointing diagonally upwards and to the right, indicating a positive trend or growth.



# PLM

Item & BoM  
MFG BoM  
BoM Views  
MFG Release  
Lifecycle Mgt  
2D/3D Review  
Compliance  
Change Mgt

# APS

Manufacturing  
Production  
Planning  
Scheduling  
Forecasting

# Material Disposition: ERP to PLM Integration





LET'S  
HAVE A  
LOOK





AUTODESK FUSION LIFECYCLE

Home > Change Request

CRO00097 - Change pocket depth to reduce movem

[01] Preparing Request

Workflow actions

Select an action to perform.

Get\_Stock

Title/Role    Design Engineer

Change Log

VMSRVSCM.DemoDB - dbo.ASC\_API\_PMA\_TBL - Microsoft SQL Server Management Studio

APMA_UNL...	APMA_CRE...	APMA_UPD...	APMA_RES...	APMA_STA...	APMA_ACTL...	APMA_USE	APMA_PMA...	APMA_PAR...	APMA_PAR...	APMA_DES...	APMA_DES...	APMA_D...
287	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL2056		MASTER PIR...		
288	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL2057		HYPERLUX L...		
289	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL2082		DURITE 0-6...		
290	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL2083		DURITE 0-6...	MOUNT BE...	
291	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL2084		VA100460...		
292	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT0345		TRANSCAN...	RECORDER ...	
293	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT0350		KL1432 STA...	KIT	
294	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL1925		PROXIMITY ...		
295	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	EL0541		CLIPS FOR R...		
296	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	AL1017		JOGGLED B...		
297	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	AL1420		CAGE WHE...		
298	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	AL1422		BRACKET F...		
299	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	AL1423		BRACKET F...	TOP	
300	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	LO0040		RATCHET S...	PRINTED	
301	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	RP0370		CAGE WHE...		
302	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	SP0179		FIXED UND...	CURTAIN E...	
303	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	DF0015		RED POLAR ...	x 2500mm	
304	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	SP0335		SACK TRUCK		
305	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	ST2634		TAIL LIFT C...	COVER	
306	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	ST2646		TAIL LIFT R...	COVER	
307	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	SP0114		BASE FOR S...		
308	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1110		WHITE NOL...	SILENT	
309	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1145		ANDERSON...	SUPPLY & FIT	
310	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1215		BACKWATC...	REVERSE KIT	
311	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1216		BRACKET F...	SENSOR	
312	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1218		FIT BACKW...	SENSOR KIT	
313	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	FT1252		MAPLE SEC...	SUPPLY & FIT	
314	2016-11-07 ...	2016-11-07 ...	1	9	3		NULL	SP0490		AXALERT PL...		
*	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL	NULL

Access Supply Chain - Access Demo - [Warehouses]

Part	TROWEL ARM	A				
Physical	49.00000	No Bin Qty		0.00000	CWS Qty	49.00000
* Denotes accessibility by this user						
Drag a column header here to group by that column.						
* Warehouse	Description	Physical stock	Free stock	Customer allocation	Kit allocation	
* B1	Birmingham	12.00000	10.00000	2.00000	0.00000	
* F1	Farnborough	3.00000	3.00000	0.00000	0.00000	
* L1	Lockington	34.00000	26.00000	8.00000	0.00000	

3 of 3 Records

SA/SA    Database: DemoDB    PWENGLISH    Sales: C3    Purchase: C3

AUTODESK FUSION LIFECYCLE

Home > Change Request

CRO00097 - Change pocket depth to reduce movement of Tr...

[01] Preparing Request

Workflow actions

Change Request Details

Attachments (0)

Workflow Actions

Change Log

Edit

required

Material Disposition (3 of 5)

	Qty	Taken	Total	Cost
Birmingham	12	2	10	45.60
Lockington	34	8	26	118.56
Farnborough	3	0	3	13.68

Approval Board (4 of 5)

Approval Lists

Approvals Required

Closeout (5 of 5)

Spawn CO on Approval

Closeout Comments

AUTODESK

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AUTODESK FUSION LIFECYCLE



# ERP

Suppliers  
Final Costing  
Stock\Inventory  
Actuals

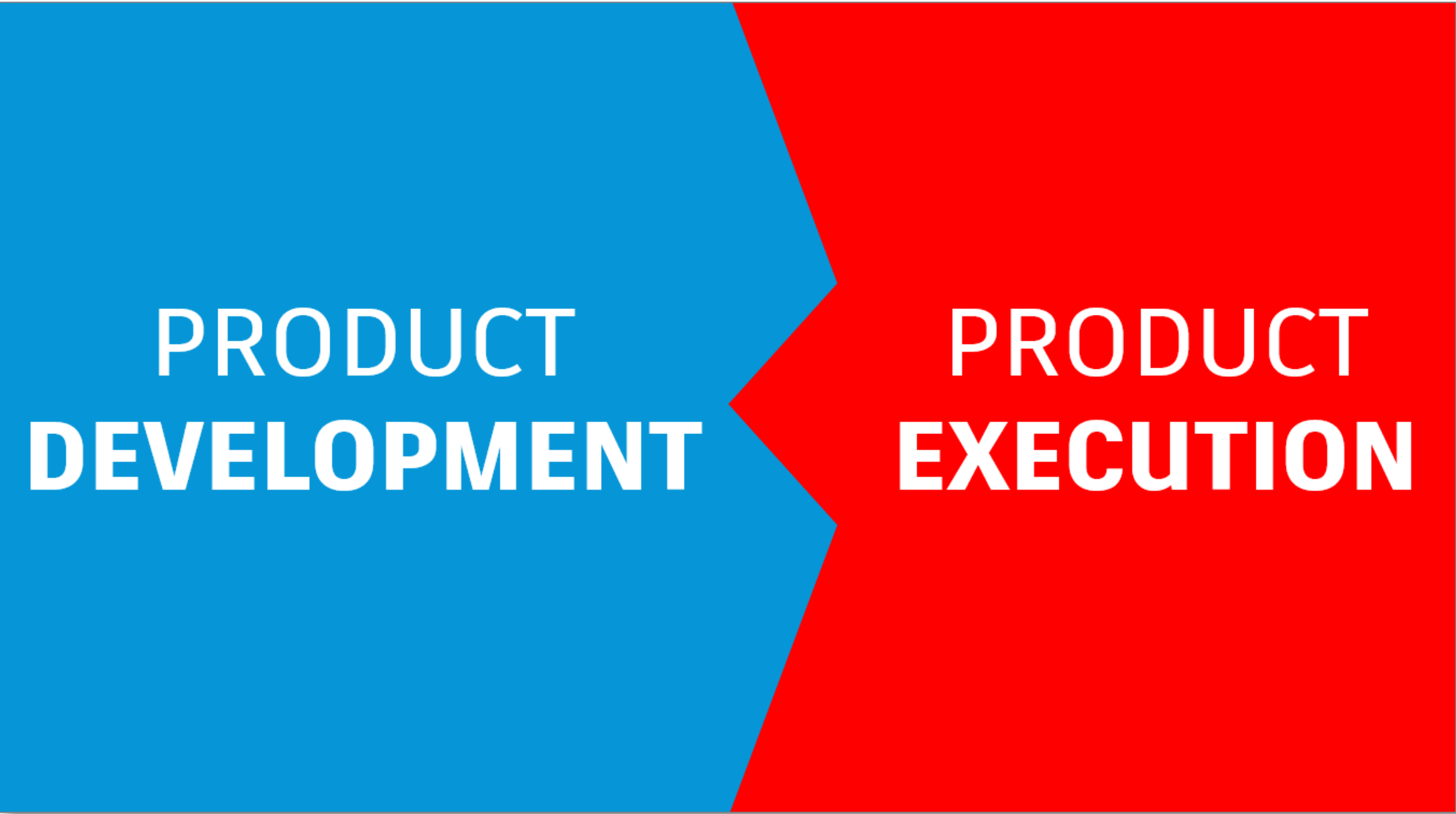
# PLM

Item & BoMs  
NPI\NPD Projects  
Suppliers  
Change Mgt

# Closing

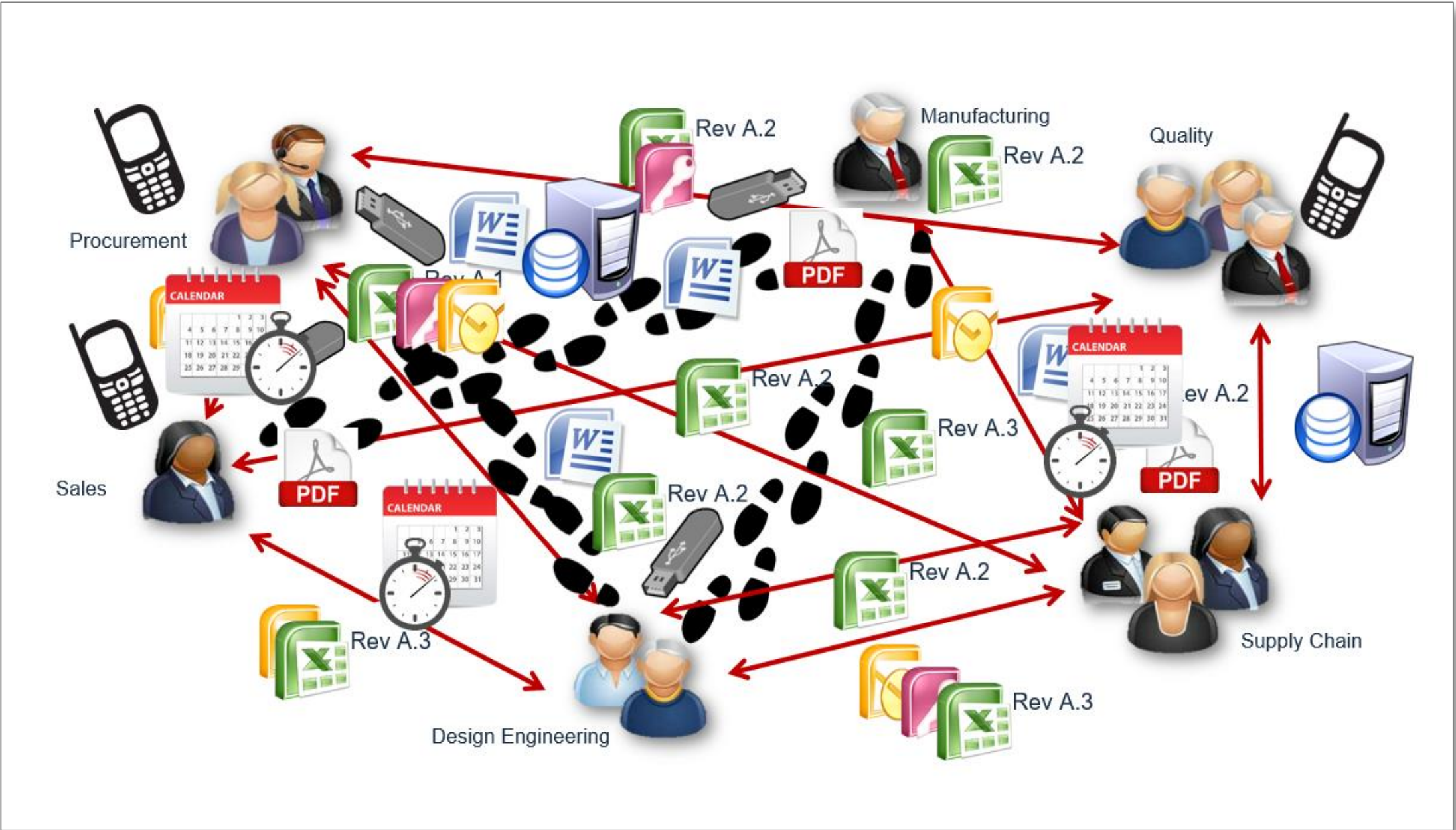






21.5

hours per person per week on potentially inefficient tasks\activities



The diagram consists of five interlocking gear shapes arranged in a horizontal line. From left to right, the gears are: a light green gear labeled 'CAD', a yellow gear labeled 'PDM', a blue gear labeled 'PLM', a red gear labeled 'ERP', and a purple gear labeled 'APS'. The gears are interlocked such that the teeth of one gear mesh with the teeth of the adjacent gears, symbolizing the integration and data flow between these different business systems.

**CAD**

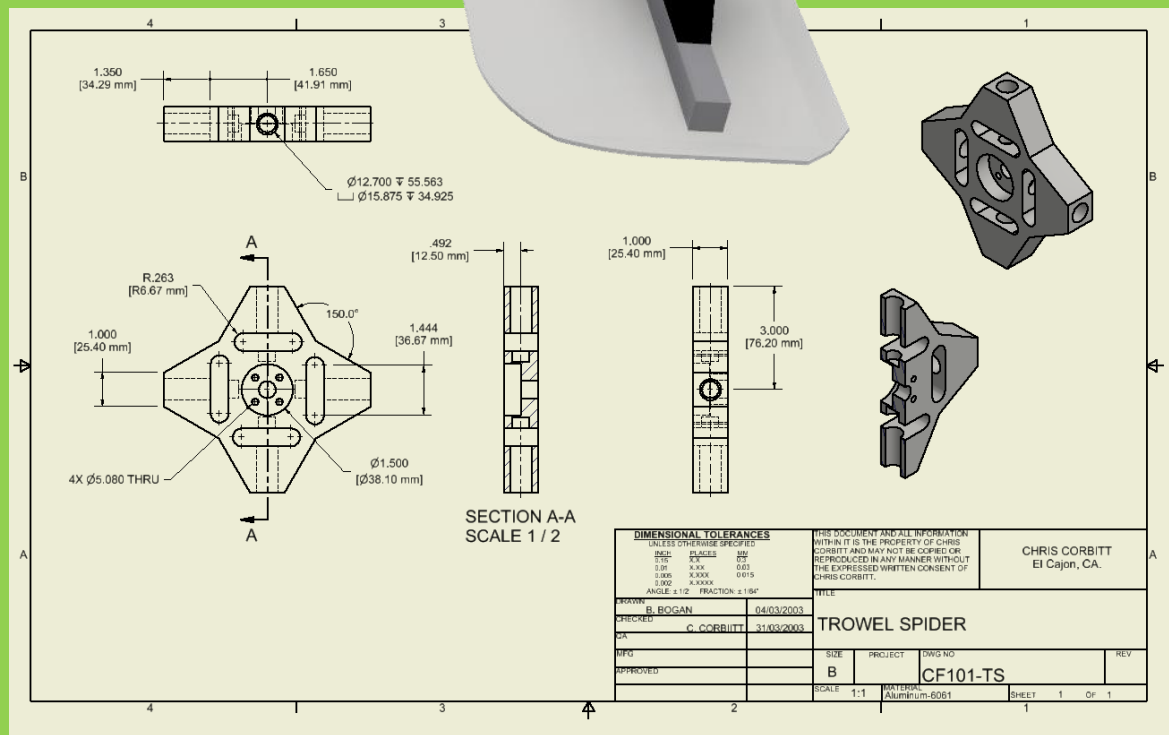
**PDM**

**PLM**

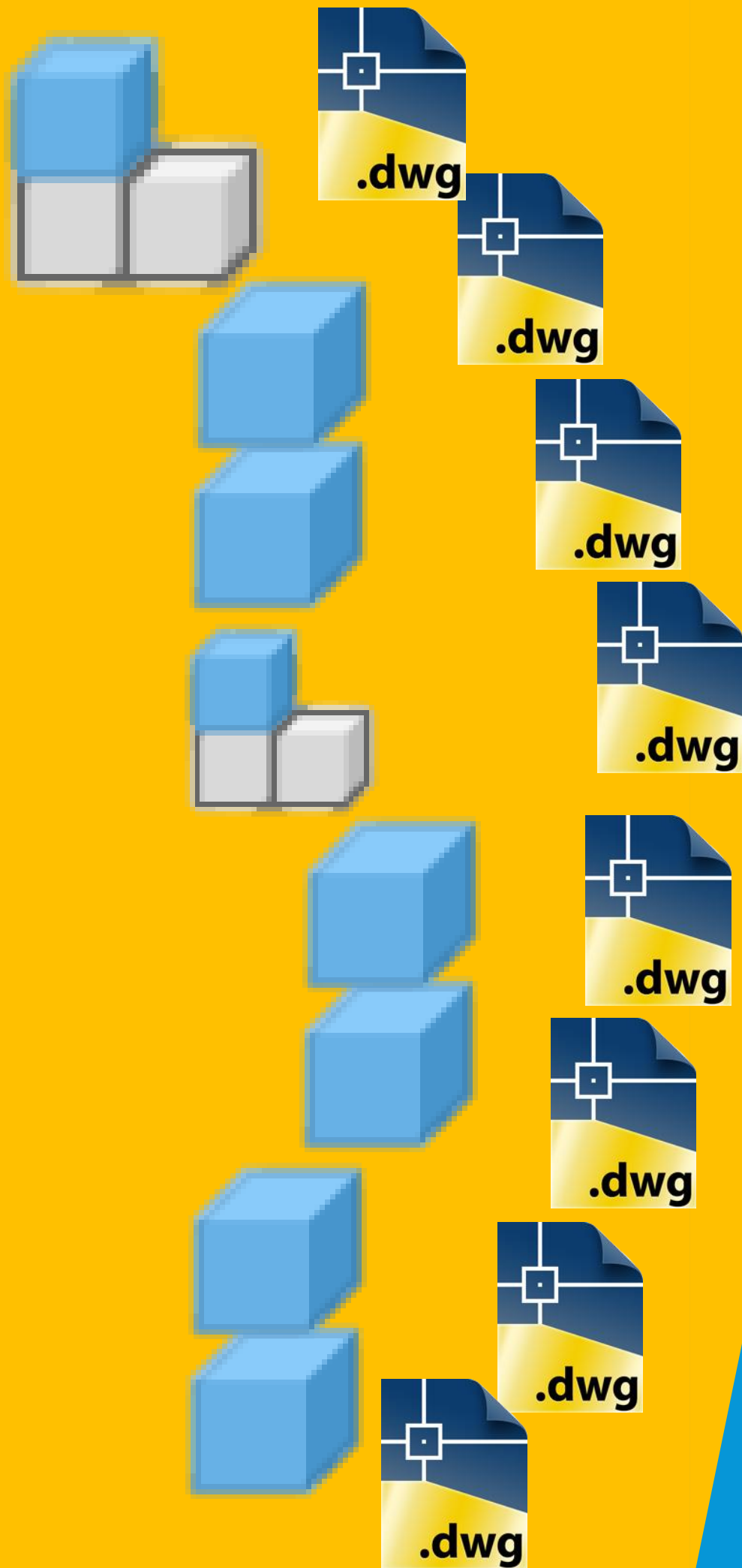
**ERP**

**APS**

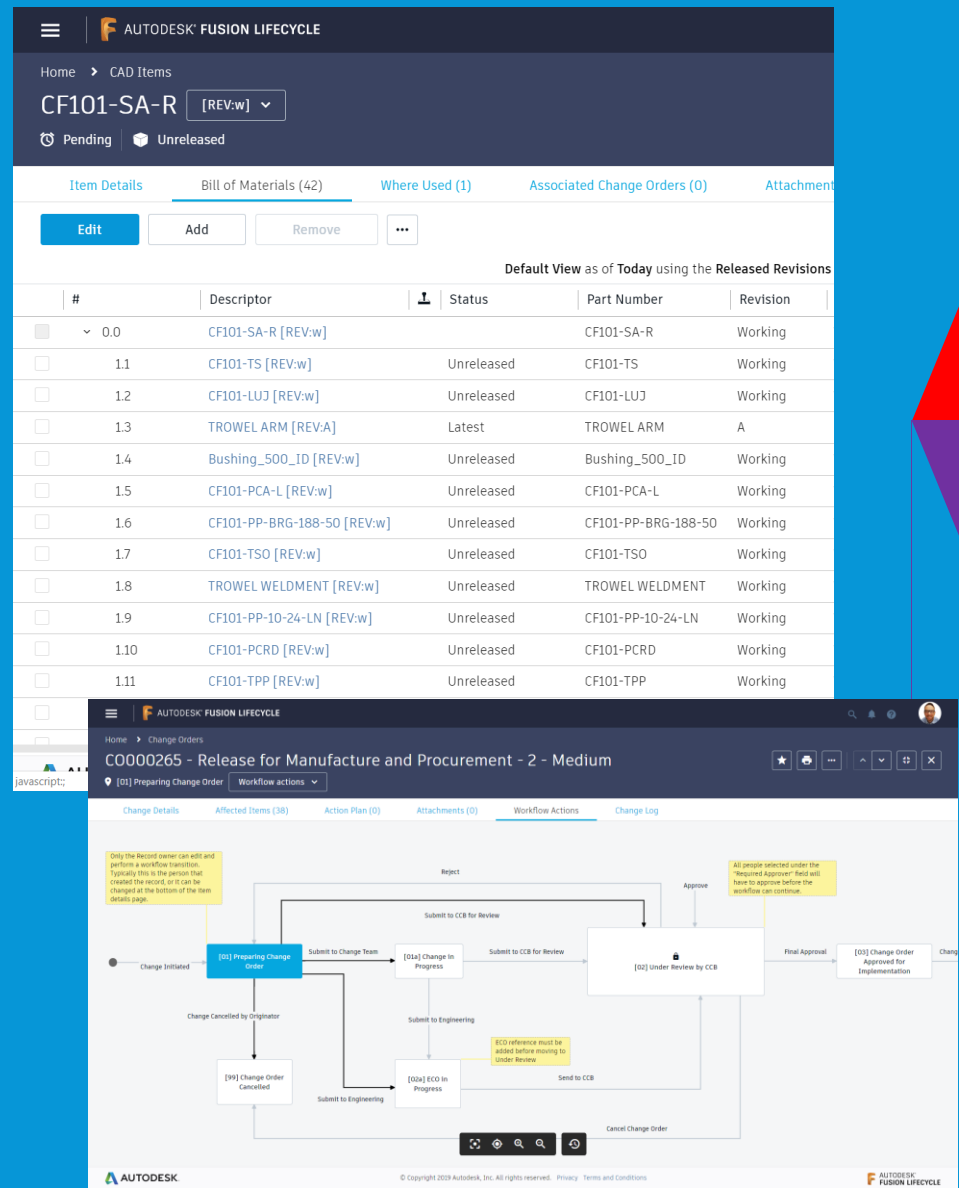




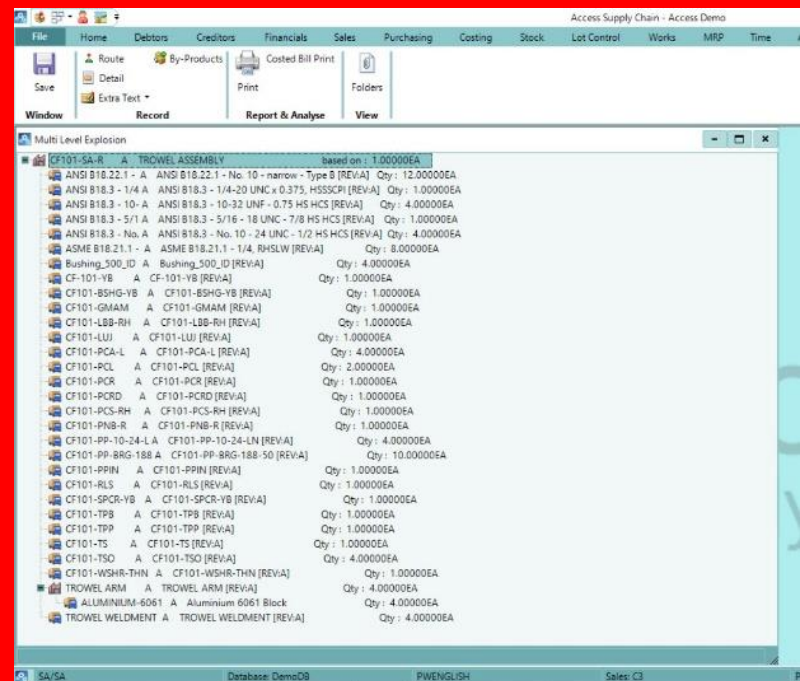
# PDM



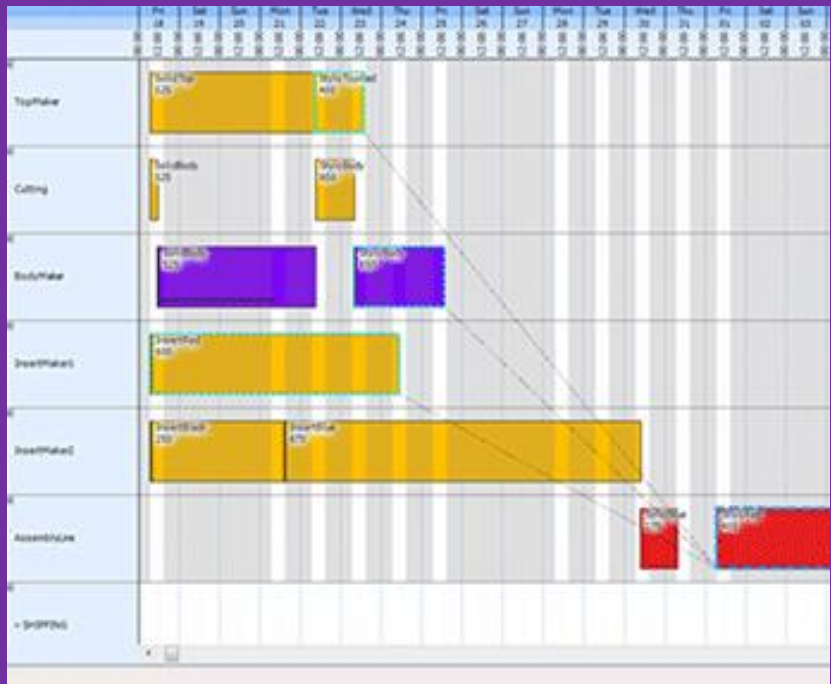
# PLM



# ERP



# APS



## More information

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