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
<table>
<thead>
<tr>
<th>Acronym</th>
<th>Full Form</th>
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<tr>
<td>CAD</td>
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<td>Enterprise Resource Planning</td>
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<td>APS</td>
<td>Advanced Planning &amp; Scheduling</td>
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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
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Morning All

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.

Whilst waiting for those can you check what I have is accurate and let me know if you notice any items that are missing or the wrong version

Thanks a lot

Steve

Steve Bedder
Senior Solutions Specialist
Autodesk

T: 07912 476 719
E: steve.bedder@autodesk.com
;1001
'T1 D=10. CR=0. - ZMIN=-25.9 - flat and mill';
N10137044G75017;
N154173;
'2D Adaptive vol';
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Setup Sheet for Program 1001

Job Description: Setup2

DOCUMENT PATH: C:\Demo Docs\Project Workspace\Projects\RC1850\RCCF-CF10\TROWEL SPIDER.ppt

WCS: #0

Spindle:
Dx: 164.4mm
Dy: 164.4mm
Dz: 31.4mm

Furut:
Dx: 152.4mm
Dy: 152.4mm
Dz: 25.4mm

Spindle Location in WCS #0:
X: 0mm
Y: 0mm
Z: -91.4mm

Spindle Up/On in WCS #0:
X: 154.4mm
Y: 154.4mm
Z: 0mm

Total

Number Of Operations: 14
Number Of Tools: 4
Tools: T0 T1 T2 T3

Maximum Feedrate: 5000mm/min

Maximum Spindle Speed: 30000rpm

Cutting Distance: 2262.8mm

Radius Distance: 1147.89mm

Estimated Cycle Time: 11:55:16s

Tools

T0 0010

Type: flat end mill

Diameter: 8mm

Length: 50mm

Flutes: 3

Description: 8mm Flat End Mill

Estimated Cycle Time: 11:29:16s

T0 0111

Type: end mill

Diameter: 50mm

Length: 100mm

Flutes: 4

Maximum Feed: 1140mm/min

Maximum Spindle Speed: 15000rpm

Cutting Distance: 6008.77mm

Radius Distance: 3056.95mm

Estimated Cycle Time: 25m:12s (25.19s)

T0 0111

Type: end mill

Diameter: 50mm

Length: 100mm

Flutes: 4

Maximum Feed: 10000mm/min

Maximum Spindle Speed: 10000rpm

Cutting Distance: 1466.48mm

Radius Distance: 625.95mm

Estimated Cycle Time: 25m:12s (25.19s)
21.5

hours per person per week on potentially inefficient tasks/activities
Searching for information, data or documents
Verifying data, information or documents are correct/up to date
Updating out of date data and documents
Chasing people for review and sign off
Inputting data into different systems

21.5

hours per person per week on potentially inefficient tasks/activities
Projects/products delivered late
Incorrect parts manufactured/purchased
Loss of Margin
Loss of Reputation
Loss of Sales

21.5 hours per person per week on inefficient tasks/activities
Engineering Release:
PDM to PLM Integration
Manufacturing Release: PLM to ERP Integration
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.jpg

Title: Trowel Assembly

Description: Right hand side trowel general assembly

Weight: 5.300 (kilograms) (11.6845 pounds)

Category: Assembly

Originator: Bill Bogdan

Material: various

Units: Each
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
Screenshots and/or video showing the re-use of PLM data in ERP, Items, BoM, Routing, Procurement, etc.
Production Scheduling:
PLM to APS Integration
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2. Second half to show the data in APS
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
Select an action to perform.

- Get_Stock

Title/Role: Design Engineer
Closing
21.5
hours per person per week on potentially inefficient tasks/activities