



Tool Storage System

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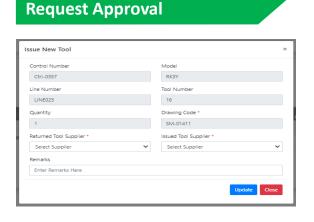
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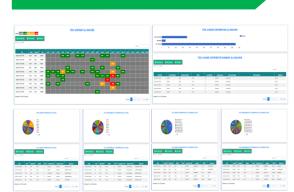
Background



 Parts Tool Storage, used paper forms for tool request and records at excel to track history. Perform manual inventory and consolidation of reports. Per machine, and per tool checking of tool life, and manually writing data and input at excel monitoring.

Tool Request Form Tool Request Machine Number* Select. MDF Number* Enter MDF Number Tool Number* Remaining Tool Life* Remarks* Enter Tool # Remaining Tool Life Enter Remarks





Historical Data and Trends

Online Request Form

Machine Downtime History

Trend Analysis

<u>Tool Storage System</u>



BEFORE









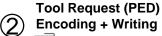






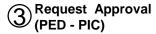
Incoming Tool Encoding at Excel 2













Manual Checking of Inventory



Manual Report Generation



AFTER











1 Incoming Tool Encoding at Web



Web-FormTool Request Encoding



(3) Online Approval







<u>Tool Storage System</u>



| System Flow | Description |
|---------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Start | Machine alarm, encountered tool life-end alarm, tool-break, or tool abnormality. |
| Request | Technician will submit tool request online, with the information needed(i.e. machine number, tool number, root cause etc.). |
| Request Approval | If request status is tool break and tool abnormality, acknowledgement of technician PIC is required before tool issuance of tool keeper, if tool request status is tool life end approval of technician pic isn't necessary. |
| Tool Issuance | Tool keeper can select tool category(i.e. new tool, used tool, evaluation tool) to be issued to requestor. |
| QA Buy-Off | QA will include checking of online tool request upon buy-off of machine every tool change, if no record buy-off . |
| History | Inventory of tool(new, used) system generated. Tool life per machine, history of tool change per machine, analysis for best and worst tool supplier per tool code, and per area tool break and tool abnormality analysis. |
| End | Machine running. |

User Interface



Request Form



Approval Form



Tool Issuance Form



Dashboards and History



- This request form includes information of machine, MDF number, tool number and remaining tool life and remarks/reason of tool change. User has three option upon requesting, tool life end, tool break and tool abnormality.
- This approval form includes the request information from technician to verify by PIC before proceeding to tool keeper.

 Tool keeper have options of tool to be issued to request, new tool, used or evaluation tool. This form holds the information tool issued by tool keeper (i.e. returned tool supplier, issued tool supplier).

 Auto generated tool inventory, history of tool change per machine, tool life heat map per machine, analysis for best and worst tool supplier per tool code. And downloadable history in excel file format. Daily mail alert for machine under 1,000 remaining tool life.

