Cutting Operator Module Test Cases

## Revision History

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| --- | --- | --- | --- | --- |
| Version | Date | Pages | Notes | Authors |
| 01 | Jan. 10, 2013 | Last | Test cases for Cutting operation with BINS | E. Markov |

# F1. Transfer PCBs from Panels in Magazines to bins

***Test Cases:***

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| Test Case | Description | Expected result |
| Prerequisites | 1. User has logged in the system 2. Process step selected |  |
| F1.UC1.T1 | 1. Operator presses FIFO. 2. User scans a bin. 3. User scans panels from that magazine until the bin is filled 4. User scans panel that fills the bin 5. User scans next bin | 1. System asks a magazine that is first on FIFO and asks for bin into which the pcbs will be transferred (label of barcode filed + message "моля сканирайте контейнер"). 2. System confirms bin loaded. 3. System processes the pcbs, increments counters and fills bins contents. 4. System asks for new bin 5. System asks for the already used magazine on the workplace |
| F1.UC1.T2 | 1. Operator presses FIFO. 2. **User scans a bin (not empty, contains another product).** 3. User scans next bin for the same product | 1. System asks for a magazine that is first on FIFO. 2. System notifies the user that this bin is already used for another product. **BinContainsAnotherProduct** 3. System confirms bin loaded |
| F1.UC1.T3 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panels from another magazine (not first in FIFO)** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects the panels. **PanelFromWrongMagazine** 4. System processes the panels |
| F1.UC1.T4 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panels from a magazine that contains another product** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **MagazineContainsAnotherProduct** 4. System processes the panels |
| F1.UC1.T5 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panels that are not in magazine at all** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PanelNotInMagazine** 4. System processes the panels |
| F1.UC1.T6 | 1. Operator presses FIFO. 2. **User scans a bin, that was already used on the same workplace, but not finished.** 3. User scans panels from that magazine until the bin is filled 4. User scans last panel 5. User scans next bin | 1. System asks for a magazine that is first on FIFO and asks for confirmation of the already loaded bin. 2. System confirms bin loaded. 3. System processes the pcbs, increments counters and fills bins contents. 4. System asks for new bin 5. System asks for the already used magazine on the workplace |
| F1.UC1.T7 | 1. Operator presses FIFO. 2. **User scans a bin, that was already used on the same workplace, but not finished. On the workplace there is a magazine that is already used, but not finished.** 3. User scans panels from that magazine until the bin is filled 4. User scans last panel 5. User scans next bin | 1. System asks for a magazine that is already on the workplace and asks for confirmation of the already loaded bin. 2. System confirms bin loaded. 3. System processes the pcbs, increments counters and fills bins contents. 4. System asks for new bin 5. System asks for the already used magazine on the workplace |
| F1.UC1.T8 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panels that not exist in db** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PanelDoesNotExist** 4. System processes the panels |
| F1.UC1.T9 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans pcbs that not exist in db** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PcbDoesNotExist** 4. System processes the panels |
| F1.UC1.T10 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panel that is already finished (by same operator, same process step)** 4. User scans panels from correct magazine   Consider the possibility to clean the bin contents after the bin is finished for better diagnostic of pcb messed ordering | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PanelAlreadyFinished** 4. System processes the panels |
| F1.UC1.T11 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panel that is already finished (by other operator)** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PanelAlreadyFinishedByАnotherOperator** 4. System processes the panels |
| F1.UC1.T12 | 1. Operator presses FIFO. 2. User scans a bin. 3. **User scans panel that is already finished (on the same operation, but another process step/product)** 4. User scans panels from correct magazine | 1. System asks for a magazine that is first on FIFO. 2. System confirms bin loaded. 3. System rejects these panels with appropriate message. **PanelAlreadyFinishedAsAnotherProduct** 4. System processes the panels |
| F1.UC1.T13 | 1. Operator presses FIFO 2. **User scans a bin (not existing), but valid barcode.** 3. User scans next bin for the same product | 1. System asks for a magazine that is first on FIFO 2. System notifies the user that this bin is not registered. **BinDoesNotExist** 3. System confirms bin |
| F1.UC1.T14 | 1. Operator presses FIFO 2. **User scans a bin (invalid barcode).** 3. User scans next bin for the same product | 1. System asks for a magazine that is first on FIFO 2. System notifies the user that this barcode is invalid. **InvalidBinBarcode** 3. System confirms bin loaded |
| F1.UC1.T15 | 1. Operator presses FIFO 2. **User scans a bin (ready flag set).** 3. User scans next bin for the same product | 1. System asks for a magazine that is first on FIFO 2. System notifies the user that this bin is not free for use. **BinNotFree** 3. System calculates the FIFO |
| F1.UC1.T16 | 1. Operator presses FIFO 2. **User scans a bin (in use by another workplace).** 3. User scans next bin for the same product | 1. System asks for a magazine that is first on FIFO 2. System notifies the user that this bin is not free for use. **BinregisteredAtAnotherWorkplace** 3. System calculates the FIFO |
| F1.UC1.T17 | 1. Operator presses FIFO but **the FIFO is empty.** | 1. System notifies empty fifo |
| F1.UC1.T18 | 1. Operator presses FIFO 2. User scans a bin. 3. User scans a few panels from that magazine. The bin is not filled. 4. User presses finishBin. 5. User scans next bin | 1. System asks for a magazine that is first on FIFO 2. System confirms bin loaded. 3. System processes the pcbs, increments counters and fills bins contents. 4. System asks for new bin 5. System asks for the already used magazine on the workplace |
| F1.UC2.T1 | 1. Operator opens the work screen. 2. **User scans a bin. On the workplace there is a magazine that is already used, but not finished.** 3. **User scans panels from that magazine until the magazine is emptied** 4. User scans the last panel from the magazine 5. User scans panel from the new magazine | 1. System asks for bin into which PCBs will be transferred. 2. System asks for a magazine that is on the workplace. 3. System processes the pcbs, increments counters and fills bins contents. 4. System asks for new magazine from the FIFO 5. System processes the panel |

# F2. Separate PCBs for repair marked from previous modules

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| Test Case | Description | Expected result |
| Prerequisites | 1. User has logged in the system 2. Process step selected 3. Panels with pcbs for repair present |  |
| F2.UC1.T1 | 1. Operator opens the work screen. 2. User scans a bin. 3. User scans panels from that magazine until the bin is filled 4. User scans panel that fills the bin 5. User scans next bin | 1. System asks for bin into which PCBs will be transferred (label of barcode filed + message "моля сканирайте контейнер"). 2. System asks for a magazine that is first on FIFO "Моля, вземете магазин МХХХ". 3. System processes the normal pcbs, increments counters (with all pcbs) and fills bins contents (with normal pcbs).System asks the user to separate the PCBs that are for repair. 4. System asks for new bin 5. System asks for the already used magazine on the workplace |

# F3. Separate PCBs for scrap (if damaged during panel separation).

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| Test Case | Description | Expected result |
| Prerequisites | 1. User has logged in the system 2. Process step selected |  |
| F2.UC1.T1 | 1. Operator opens the work screen. 2. User scans a bin. 3. User scans panel from that magazine and damages one board while separating 4. User presses "Брак" button and registers the pcb. | 1. System asks for bin into which PCBs will be transferred (label of barcode filed + message "моля сканирайте контейнер"). 2. System asks for a magazine that is first on FIFO "Моля, вземете магазин МХХХ". 3. System processes the pcbs 4. Pcb is marked as scrapped |