

Qualification Documentation

Alarm and Function Testing

Glaxowellcome Production

France

**CUC 2002**

Cartoning machine

Serial Number

Overall order no.

100261

3100001681

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# Alarm and Function Testing Plan

**CUC 2002**

**Cartoning machine**

**100261**

**Glaxowellcome Production**

**France**

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## Alarm and Function Testing Plan

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## 1 References

No.	Title
[1]	Order confirmation
[2]	SOP-RG-02.001: Procedure in case of deviation during qualification
[3]	SOP-RG-04.001: Good documentation practice during qualification
[4]	SOP-RG-03.001: Procedure for change control
[5]	Alarm and Function Testing Report

## 2 Introduction

This document forms the Alarm and Function Testing of the ROTZINGER PharmaPack GmbH equipment installed at Glaxowellcome Production, France. The execution of this document shows that the product administration as well as faults, messages, warnings and software switches function correctly.

## 3 Scope

This document contains the Alarm and Function Testing Plan and the references necessary to collect and record the evidence that shows the CUC 2002, 100261 operates correctly.

The test results will be approved after completion of the Alarm and Function Testing Report.

## 4 Test philosophy

The following chapter describes the general test philosophy for this Alarm and Function Testing.

### 4.1 Test approach

The objective of this Alarm and Function Testing is to gather and document evidence that verifies that the ROTZINGER PharmaPack GmbH equipment operates according to the manufacturer's requirements and updated design documents.

The Alarm and Function Testing plan has been produced according to the agreed scope of supply in [1], which is based on current GMP requirements.

It will be approved prior to execution by ROTZINGER PharmaPack GmbH and Glaxowellcome Production representatives. After testing, and closing of the nonconformances, the Alarm and Function Testing report can be issued and approved.

All information for an individual test as well as any additional documentation used or collected during the Alarm and Function Testing execution, will be attached to the individual test protocols and annotated with the test number, date and initials (see [2]).

The agreed acceptance criteria for each test are defined in the test scope (see chapter 7.2).

### 4.2 Test structure

All qualification tests of this document have the following structure:

- Test title
- Test number
- Test objective
- Test prerequisites
- Test procedure
- Acceptance criteria
- Data to be recorded (if applicable)
- Test result(s)
- Comments
- Final test assessment

#### 4.2.1 Access protection

The machine software provides an access protection feature.

The access protection is connected to the customer network. In this special case, the user administration is not locally set, but as a domain, i.e. the Windows-domain, which is overlapping. This includes a multiple connection of different stations over one network.

An advantage of this administration system is that a new user can be added in the domain and all computers in the network dispose of this new user. User administration is simplified thereby.

#### User administration - domain

In the domain the user administration contains different levels:

- Groups: all users with the same characteristic parameters are summarized in a group and certain rights are assigned by the Administrator.
- User: A user is defined over its access data (user name, password)

Comment:

The configuration of user data is defined by the customers system and can not be set absolutely. As a reference the FDA 21 CFR Part 11/GMP Vol.4 Annex 11 provisions have to be maintained.

- The combination of user name and password is unique and allocated definitely to one access authorization.  
(FDA 21 CFR Part 11 §11.300(a)/GMP Vol.4 Annex 11: 12.1)
- Only the Administrator can create or disable, but not delete, a user name.  
(FDA 21 CFR Part 11 §11.300(b)/GMP Vol.4 Annex 11: 12.1)
- The password becomes invalid automatically after x days, the user receives pertinent information y days previous to this date - x,y parameters can be set by the Administrator.  
(FDA 21 CFR Part 11 §11.300(b)/GMP Vol.4 Annex 11: 12.1)
- Further settings, concerning structure and length of the password and the definition of forbidden passwords ("No-go-List" for passwords) are defined by the Administrator.
- Consequences referring to invalid inputs and the corresponding inhibition of the system by Administrator only.  
(FDA 21 CFR Part 11 §11.300(d)/GMP Vol.4 Annex 11: 12.3)

#### 4.2.2 Version management

Version management - format - product - recipe data

- When creating a new format, a count up "number" is generated (e.g. "1" ; "2" ; "3" ....), the format name can be renamed, the text is open for configuration (e.g. "Aspirin 50 mg")
- One format can include different drafts or released versions with corresponding machine setting parameters. For a newly created draft version, the (version) number is increased by 1. When the draft is released to "released version" it changes its status from draft to released. (e.g. Format 1 and released version 4 will be named version 1.004)
- Preset format parameters can only be changed in a draft version. The draft version can be released, a released version can be activated for production.
- Versions can be disabled by a user (definition per matrix), however only the Admin can delete versions. All existing versions are shown in the HMI.

#### 4.2.3 Audit trail

- All user actions related to process, quality and product as well as parameter changes must be recorded in the audit trail: e.g.:
  - Logon/logout of users, also invalid access attempts and system disable  
(FDA 21 CFR Part 11 §11.300(d)/GMP Vol.4 Annex 11: 12.1, 12.3)
  - Modifications of the access matrix  
(FDA 21 CFR Part 11 §11.10(d)/GMP Vol.4 Annex 11: 12.1, 12.3)
  - Faults, errors, message display
  - Creating, changing format/recipe data (filling/empty weights, ...)
  - Change of defaults of checking devices (code reader, camera, ...)
  - Checking devices On/Off
  - Options On/Off
  - Format change
  - Modifications of sizes / speeds / reject limits/ weights, ... relevant to product (machine speed, r.p.m, shift register ...)
  - Change of operating mode (Line, Automatic, Setup, ...)
- The audit trail is kept batch-related. A filter can be used to fade out events outside the batch (before and during interruptions of the batch).
- Example for batch-related: All events before starting the batch, during a batch interruption and during the batch are written to the audit trail, which is concluded at the end of the batch.
- If no batch management has been realized, the audit trails are managed by a different logical system, such as e.g. by days.
- Audit trails can be neither modified nor deleted.



- Audit trails are stored with a security system, any later entries/modifications are detected by the system (FDA 21 CFR Part 11 §11.10(c)/GMP Vol.4 Annex 11: 7.1, 12.1)
- All audit trail entries show the action, the complete user name, date and time (FDA 21 CFR Part 11 §11.10(e)/GMP Vol.4 Annex 11: 12.1, 12.3, 12.4)
- The audit trails can be according to criteria such as user, activity, date and time filtered and printed online.
- The user can enter a free comment to the log at any time, e.g. via the superimposed keyboard.
- The audit trails are part of the production report.

Example of an audit trail:

Time	User	Text
08/20/2020 3:11:44 pm	Maier	User logged on (name: group_xyxxx)
08/20/2020 3:12:44 pm	Maier	switch <30> Data from <off> to <on>
08/20/2020 3:15:44 pm	Maier	User logged out (name: group_xyxxx)

### 4.3 Test procedure

The procedure for executing each test is defined in the test scope table (see chapter 7.2) and/or in the test protocol.

### 4.4 Test prerequisites

If applicable the prerequisites for each test are listed in the test protocol.

### 4.5 Data to be recorded

A data specification that needs to be retained as documented evidence, will be stored in the relevant test procedure.

### 4.6 Test result

During test execution, individual test results have to be compared with the expected results, and an assessment has to be made for each acceptance criteria separately whether the result complies (yes) or does not comply (no).

A final assessment will close a test. "Results comply: Yes" (Passed) will be used if all acceptance criteria have been met. In case one or more acceptance criteria can not be met, the test will be assessed as failed ("Results comply: No").

The final assessment of a test (or retest) will then be recorded in the test scope (see chapter 7.2).

### 4.7 Handwritten entries and comments

Data entries, comments, corrections or signatures manually written onto the prepared test protocol will be performed in accordance with [3] into the rounded boxes of the document as the test is executed.

Example:

Any correction to handwritten data will be made by the person entering the data. Each page used for executing the qualification is to be signed and dated.

Data that is gathered by instrumentation onto a recorder will be printed and attached to a test protocol. Applicable data calculations will be transferred to a computer and the calculation will be printed and attached to a test protocol. All attachments will be signed by the responsible author.

#### 4.8 Deviation handling

All exceptions that are discovered during execution are to be entered into the deviations sheet according to [2] using the deviation sheet in chapter 7.3.

The deviation sheets are collected in the Alarm and Function Testing deviation chapter of the Alarm and Function Testing folder.

#### 4.9 Change control

Changes during the qualification activities of this document shall be treated according to GDP.

#### 4.10 Test summary

Status of the Alarm and Function Testing execution, and follow up actions after completion of the Alarm and Function Testing, are shown in [5].

#### 4.11 Personnel involved in testing

All personnel involved in the qualification activities of this document will be listed using the table in chapter 7.1.

## 5 Test scope

A list of tests to be performed including the test procedures and acceptance criteria to be used during the Alarm and Function Testing can be found in the table in chapter 7.2: Test scope.

Following execution, the completed table will contain the final result for each test. It will then be placed in the “test scope chapter”.

## 6 Glossary

AFT	Alarm and Function Testing
CFR	Code of Federal Regulations
FDA	Food and Drug Administration
FLT	Fault (message)
GDP	Good Documentation Practice
GMP	Good Manufacturing Practice
ME	Message
PLC	Programmable Logic Controller
QD	Qualification Documentation
SOP	Standard Operating Procedure
SWS	Software Switch
SWSOPM	Software Switch for Operation Mode
URS	User Requirement Specification
WA	Warning (message)
n.a.	not applicable

## 7 Appendix

### 7.1 Identification of all Personnel involved

All personnel involved in the qualification activities of this document will be listed in the table below and identified in the relevant test protocols.

The involved personnel must be authorized and familiar with the machine operation.

Name	Position/Company	Date	Signature	Initials

## 7.2 Test scope

A list of all tests to be performed during the Alarm and Function Testing (AFT), including information on the execution of the tests and acceptance criteria, are listed in the following table. After the execution of the tests, this table also contains all final results for each test.

The test protocols for the executed tests listed in the following table are filed as an appendix to the Alarm and Function Testing Plan in index 2 as "Alarm and Function Testing Execution".

### Cartoning machine CUC 2002

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
1	Software version	<ul style="list-style-type: none"> <li>The software version is documented.</li> </ul>				
2	Check HMI menu, buttons and switches					
2.1	Spotcheck HMI	<ul style="list-style-type: none"> <li>HMI menu and page tab spotcheck is OK</li> </ul>				
3	Access protection					
3.1	USER CONFIGURATION FOR VALIDATION	<ul style="list-style-type: none"> <li>User settings are adjusted according to data of table</li> </ul>				
3.2	(Domain) Log-in	<ul style="list-style-type: none"> <li>No function can be actuated until a valid user is logged in</li> <li>Successful login, functions can be induced</li> <li>Only one user can be logged in at a time</li> </ul>				
3.3	(Domain) Automatic log-out	<ul style="list-style-type: none"> <li>Automatic logout after x minutes inactivity x = _____</li> <li>Entry to audit trail that user has been logged out automatically</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
3.4	(Domain) Log-out	<ul style="list-style-type: none"> <li>No operation can be actuated</li> <li>Entry to audit trail about the implemented steps</li> </ul>				
4	Audit trail					
4.1	Audit trail entries (parameter)	<ul style="list-style-type: none"> <li>All entries show the activity, user name, date and time correctly</li> </ul>				
4.2	Audit trail entries	<ul style="list-style-type: none"> <li>All entries in the audit trail show the activity, user name, date and time</li> <li>The entries can be filtered and printed online based on various criteria (user, activity, date and time)</li> <li>Entries can not be modified or deleted</li> </ul>				
5	Version management for recipe					
5.1	Version management in case of new recipe (product version)	<ul style="list-style-type: none"> <li>When creating a new recipe, it will be generated with the designation count up number "x"; a new version with count up number "y"</li> <li>After enabling the draft version (only) the status changes</li> </ul>				
5.2	Disable recipe version (product data)	<ul style="list-style-type: none"> <li>Versions can be deleted or disabled</li> <li>When the corresponding filters are selected, all existing versions are open for viewing</li> <li>Entry to audit trail is correct</li> </ul>				
5.3	Recipe versions for production	<ul style="list-style-type: none"> <li>Disabled recipe versions can not be activated for production</li> <li>Only recipe versions with status "Draft" or "Enabled" can be activated for production</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
5.4	Create new recipe on the basis of an existing recipe version	<ul style="list-style-type: none"> <li>A new recipe can be created on the basis of an existing recipe version</li> <li>A new draft version can be created on the basis of a current recipe version</li> </ul>				
5.5	Delete disabled recipe version	<ul style="list-style-type: none"> <li>Status of selected recipe version changes to "Deleted"</li> <li>Deleted recipe versions can no longer be enabled or activated</li> </ul>				
6	Batch Management					
6.1	Create new batch	<ul style="list-style-type: none"> <li>A new batch can only be created if previous batch has been completed</li> </ul>				
6.2	Start batch	<ul style="list-style-type: none"> <li>Only the new created batch can be started</li> </ul>				
6.3	Interrupt and resume batch	<ul style="list-style-type: none"> <li>Batch can be interrupted and resumed</li> </ul>				
6.4	Complete batch	<ul style="list-style-type: none"> <li>After batch is completed, batch data can be saved or printed and batch cannot be resumed again</li> </ul>				
6.5	Batch history	<ul style="list-style-type: none"> <li>"Batch history" displays when and by whom status of batch has been changed</li> </ul>				
6.6	Store batch data	<ul style="list-style-type: none"> <li>Batches are stored as .zip-file in selected folder with correct name (+ date and time)</li> </ul>				
6.7	Restore batch data	<ul style="list-style-type: none"> <li>Batch is restored from .zip-file and listed in "Batch management"</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
6.8	Delete batch data	<ul style="list-style-type: none"> <li>Batches with status “Restored“ can be deleted from “Batch management“</li> <li>Batches with status “Stored“ can be deleted from “Batch management“</li> <li>Batches with status “Completed“ can not be deleted from “Batch management“</li> </ul>				
6.9	Print history of batch data	<ul style="list-style-type: none"> <li>Recipe data and results can be viewed and printed</li> </ul>				
6.10	Print batch data	<ul style="list-style-type: none"> <li>Batch data can be printed when active batch is completed or after a batch has been selected for history</li> <li>Batch data can be printed on connected printer</li> <li>Batch data can be exported to a selected folder as .pdf-file</li> </ul>				
7	Reports and print outs					
7.1	Batch print out	<ul style="list-style-type: none"> <li>Batch data can be printed (as pdf-file) after a batch has been selected for history</li> <li>Batch data can be exported</li> </ul>				
7.2	Parameter: Machine settings (Recipe)	<ul style="list-style-type: none"> <li>Print out from the machine settings (Recipe) is possible</li> </ul>				
7.3	User right print out	<ul style="list-style-type: none"> <li>It is possible to print or save the user rights</li> </ul>				
8	Basic function					



No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
8.1	Service: Clean Display	<ul style="list-style-type: none"> <li>Display turns grey and no touch input can be done</li> <li>After 30 seconds the HMI appears again</li> </ul>				
8.2	Alarmlists	<ul style="list-style-type: none"> <li>Lists of the Faults, Warnings and Messages can be selected</li> <li>Lists of Faults, Warnings and Messages can be printed or saved as pdf</li> </ul>				
8.3	Working hours counter	<ul style="list-style-type: none"> <li>Working hours counter is shown</li> </ul>				
8.4	Parameter limits	<ul style="list-style-type: none"> <li>A value greater than the maximum limit cannot be confirmed</li> <li>A value smaller than the minimum limit cannot be confirmed</li> <li>A value between the minimum and maximum limit can be confirmed</li> </ul>				
8.5	HMI Language	<ul style="list-style-type: none"> <li>The HMI language switches to the chosen language</li> </ul>				
9.1	Test protocols - Function tests software switches operation mode (SWSOPM)					

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.1.1	SWSOPM 1: AUTOMATIC	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 1 “Automatic” is activated, Operating mode “Automatic” is active</li> <li>Test 1: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> <li>Test 2: SWSOPM 2 “Setup” is activated, Operating mode “Automatic” is not active</li> <li>Test 2: SWSOPM 2 “Setup” is activated, Message is displayed on control panel (ME41)</li> </ul>				
9.1.2	SWSOPM 2: SETUP	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 2 “Setup” is activated, Operating mode “Setup” is active</li> <li>Test 1: SWSOPM 2 “Setup” is activated, Message is displayed on control panel (ME 41)</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Operating mode “Setup” is not active</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.1.3	SWSOPM 3: INCHING PANEL	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 3 “Inching panel” is activated, Operating mode “Inching panel” is active</li> <li>Test 1: SWSOPM 3 “Inching panel” is activated, Message is displayed on control panel (ME 42)</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Operating mode “Inching panel” is not active</li> <li>Test2: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> </ul>				
9.1.4	SWSOPM 4: INCHING CABLE	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 4 “Inching cable” is activated, Operating mode “Inching cable” is active</li> <li>Test 1: SWSOPM 4 “Inching cable” is activated, Message is displayed on control panel (ME 43)</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Operating mode “Inching cable” is not active</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> </ul>				
9.1.5	SWSOPM 6: OPEN STOP BRAKE	<ul style="list-style-type: none"> <li>SWSOPM 6 “Open stop brake” is activated, chosen drive can be moved manually</li> <li>SWSOPM 6 “Open stop brake” is activated, Warning is displayed on control panel</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.1.6	SWSOPM 7: ZERO DRIVE	<ul style="list-style-type: none"> <li>SWSOPM 7 “Zero drive” is activated, Drive is zeroed</li> </ul>				
9.1.7	SWSOPM 8: INCHING SINGLE AXIS	<ul style="list-style-type: none"> <li>Test 1: Operating mode „Inching single axis“ is active</li> <li>Test 1: Message is displayed on control panel (ME 47)</li> <li>Test 2: Operating mode „Inching single axis“ is not active</li> <li>Test 2: Message is displayed on control panel (ME 40)</li> </ul>				
9.1.8	SWSOPM 9: INFEEED: REFERENCE RUN	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 9 “Infeed: Reference run” is activated, reference run robot 1 will performed</li> <li>Test 1: SWSOPM 9 “Infeed: Reference run” is activated, Message is displayed on control panel (ME 448)</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Operating mode “Inching infeed” is not active</li> <li>Test2: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.1.9	SWSOPM 11: INCHING INFEED	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 11 “Inching infeed” is activated, Operating mode “Inching panel” is active</li> <li>Test 1: SWSOPM 11 “Inching infeed” is activated, Message is displayed on control panel (ME 49)</li> <li>Test 2: SWSOPM 1 “Automatic” is activated, Operating mode “Inching infeed” is not active</li> <li>Test2: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)</li> </ul>				
9.1.10	SWSOPM 60: LINE MODE DOWNSTREAM EQUIPMENT	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 60 “Line mode downstream equipment” is activated: Machine is in line mode. In case of faults fault message will be displayed on control panel and machine stops.</li> <li>Test 2: SWSOPM 60 “Line mode downstream equipment” is deactivated: Machine is not in line mode. In case of faults fault message is not displayed on control panel, machine continues run in automatic mode.</li> </ul>				
9.1.11	SWSOPM 62: MACHINE: AUTOMATIC RESTART	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 62 “Machine: Automatic restart” is activated, Machine restarts automatically after acknowledgement of the fault message</li> <li>Test 2: SWSOPM 62 “Machine: Automatic restart” is deactivated, Machine does not restart automatically after acknowledgement of the fault message</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.1.12	SWSOPM 63: LINE MODE UPSTREAM EQUIPMENT	<ul style="list-style-type: none"> <li>Test 1: SWSOPM 63 "Line mode upstream equipment" is activated, Machine is running with product infeed</li> <li>Test 2: SWSOPM 63 "Line mode upstream equipment" is deactivated, Machine is running without product infeed</li> </ul>				
9.2	Test protocols - Function tests software switches operation mode drive (SWSOPM_DRV)					
9.2.1	SWSOPM_DRV 1002: INSERTION	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1002 "Insertion" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>				
9.2.2	SWSOPM_DRV 1003: PREINSERTION HORIZONTAL	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.2.3	SWSOPM_DRV 1004: PREINSERTION VERTICAL	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.2.4	SWSOPM_DRV 1007: CARTON SETUP	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.2.5	SWSOPM_DRV 1008: LEAFLET DEVICE	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1008 "Leaflet device" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.2.6	SWSOPM_DRV 1012: ROBOT 1	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.2.7	SWSOPM_DRV 1015: MAIN DRIVE	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1015 "Main drive" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>				
9.2.8	SWSOPM_DRV 1016: INSERTION TABLE	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1016 "Insertion table" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>				
9.2.9	SWSOPM_DRV 1017: CARTON ALIGNMENT	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1017 "Carton alignment" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>				
9.2.10	SWSOPM_DRV 1054: ROBOT 1: DRILL AXIS	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.2.11	SWSOPM_DRV 1055: ROBOT 1	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>				
9.3	Test protocols - Function tests software switches (SWS)					
9.3.1	SWS 52: COMPRESSED AIR	<ul style="list-style-type: none"> <li>Test 1: If SWS 52 is activated, the robot 1 is running</li> <li>Test 2: If SWS 52 is deactivated, the robot 1 stops running *</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.3.2	SWS 53: PERMANENT READING CODE	<ul style="list-style-type: none"> <li>Test 1: Code is displayed on control panel within the "Keyence navigator-menu"</li> <li>Test 1: Code reading is active at standstill</li> <li>Test 2: Code is not displayed on control panel within the "Keyence navigator-menu"</li> <li>Test 2: Code reading is not active at standstill</li> </ul>				
9.3.3	SWS 54: VACUUM	<ul style="list-style-type: none"> <li>Test 1: If SWS 54 "Vacuum" is activated, the vacuum pump is running</li> <li>Test 2: If SWS 54 "Vacuum" is deactivated, the vacuum pump is not running</li> </ul>				
9.3.4	SWS 56: MACHINE INSIDE LIGHT OFF	<ul style="list-style-type: none"> <li>Test 1: SWS 56 "Machine inside light off" is activated: Lamps in production room don't shine</li> <li>Test 2: SWS 56 "Machine inside light off" is deactivated: Lamps in production room shine</li> </ul>				
9.3.5	SWS 100: INSERT DEFECTIVE PRODUCT	<ul style="list-style-type: none"> <li>Test 1: SWS 100 is activated: In case of defective product or defective leaflet, carton will be loaded but rejected on discharge belt</li> <li>Test 2: SWS 100 is deactivated: In case of defective product or defective leaflet, product will be rejected without loading</li> </ul>				



No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.3.6	SWS 106: CONTINUOUS INSERTION	<ul style="list-style-type: none"> <li>Test 1: Insertion pushers are activated</li> <li>Test 2: Insertion pushers are deactivated</li> </ul>				
9.3.7	SWS 119: CONTINUOUS PREINSERTION	<ul style="list-style-type: none"> <li>Test 1: Preinsertion moves in continuous operation</li> <li>Test 2: Preinsertion does not move</li> </ul>				
9.3.8	SWS 120: PREINSERTION UPPER FRONT POSITION	<ul style="list-style-type: none"> <li>Test 1: Preinserter moves into an upper front position (assembly position)</li> <li>Test 2: Preinserter moves back to original position</li> </ul>				
9.3.9	SWS 121: PREINSERTION PLATE 1 DOWN	<ul style="list-style-type: none"> <li>Test 1: If SWS 121 is activated plate 1 at preinsertion lowers</li> <li>Test 2: If SWS 121 is deactivated plate 1 at preinsertion raises</li> </ul>				
9.3.10	SWS 122: PREINSERTION PLATE 2 DOWN	<ul style="list-style-type: none"> <li>Test 1: If SWS 122 is activated plate 2 at preinsertion lowers</li> <li>Test 2: If SWS 122 is deactivated plate 2 at preinsertion raises</li> </ul>				
9.3.11	SWS 123: PREINSERTION PLATE 3 DOWN	<ul style="list-style-type: none"> <li>Test 1: If SWS 123 is activated plate 3 at preinsertion lowers</li> <li>Test 2: If SWS 123 is deactivated plate 3 at preinsertion raises</li> </ul>				
9.3.12	SWS 124: PREINSERTION PLATE 4 DOWN	<ul style="list-style-type: none"> <li>Test 1: If SWS 124 is activated plate 4 at preinsertion lowers</li> <li>Test 2: If SWS 124 is deactivated plate 4 at preinsertion raises</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.3.13	SWS 127: PREINSERTION	<ul style="list-style-type: none"> <li>Test 1: If SWS 127 “Preinsertion“ is activated, preinsertion is active</li> <li>Test 2: If SWS 127 “Preinsertion“ is deactivated, preinsertion is not active</li> </ul>				
9.3.14	SWS 200: CODE READER CARTON	<ul style="list-style-type: none"> <li>Test 1: SWS200 is activated: wrong or non-coded cartons are ejected</li> <li>Test 2: SWS200 is deactivated: wrong or non-coded cartons are not recognized and ejected</li> </ul>				
9.3.15	SWS 203: BLOWING AIR CARTON	<ul style="list-style-type: none"> <li>Test 1: Folding of the side flap is supported by blowing air</li> <li>Test 2: Folding of the side flap is not supported by blowing air</li> </ul>				
9.3.16	SWS 208: CONTINUOUS CALL CARTON	<ul style="list-style-type: none"> <li>Test 1: Folding cartons are drawn off and erected without product with each cycle</li> <li>Test 2: Folding cartons are not drawn off and not erected without product with each cycle</li> </ul>				
9.3.17	SWS 256: CHECK CARTON OPEN COVER FLAP	<ul style="list-style-type: none"> <li>Test 1: If SWS 256 “Check carton open cover flap” is activated: Carton with open cover flap is detected</li> <li>Test 2: If SWS 256 “Check carton open cover flap” is deactivated: Carton with open cover flap is not detected</li> </ul>				
9.3.18	SWS 257: CHECK CARTON OPEN SIDE FLAP	<ul style="list-style-type: none"> <li>Test 1: If SWS 257 “Check carton open side flap” is activated: Carton with open side flap is detected</li> <li>Test 2: If SWS 257 “Check carton open side flap” is deactivated: Carton with open side flap is not detected</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.3.19	SWS 300: LEAFLET DEVICE	<ul style="list-style-type: none"> <li>Test 1: SWS 300 is activated: Leaflet device is active, leaflets are called</li> <li>Test 2: SWS 300 is deactivated: Leaflet device is not active, leaflets are not called</li> </ul>				
9.3.20	SWS 302: CODE READER LEAFLET REAR	<ul style="list-style-type: none"> <li>Test 1: If SWS 302 "Code reader leaflet rear" is activated, all wrong or non-coded leaflets are ejected</li> <li>Test 1: If SWS 302 "Code reader leaflet rear" is activated, counter "Code reader rear" increases by one per defective leaflet</li> <li>Test 2: If SWS 302 "Code reader leaflet rear" is deactivated, leaflets with wrong or missing code on rear side are not ejected</li> </ul>				
9.3.21	SWS 303: CHECK LEAFLET PRESENT	<ul style="list-style-type: none"> <li>Test 1: SWS 303 "Check Leaflet present" is deactivated: Carton without leaflet will not be ejected</li> <li>Test 2: SWS 303 "Check Leaflet present" is activated: Carton without leaflet will be ejected</li> </ul>				
9.3.22	SWS 304: INSERT DEFECTIVE LEAFLET	<ul style="list-style-type: none"> <li>Test 1: SWS 304 is activated: In case of defective leaflet, leaflet will be loaded but rejected on discharge belt</li> <li>Test 2: SWS 304 is deactivated: In case of defective leaflet, leaflet will be rejected without loading</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.3.23	SWS 307: CONTINUOUS CALL LEAFLET	<ul style="list-style-type: none"> <li>Test 1: SWS 307 "Continuous call leaflet" is activated, Leaflets are drawn off and folded without product with each cycle</li> <li>Test 2: SWS 307 "Continuous call leaflet" is deactivated, Leaflets are not drawn off and folded without product with each cycle</li> </ul>				
9.4	Test protocols - Messages (ME)					
9.4.1	ME 25: BATCH CONTROL: BATCH IS INTERRUPTED	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.2	ME 26: BATCH CONTROL: BATCH IS NOT ACTIVE	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.3	ME 27: BATCH CONTROL: BATCH IS ACTIVE	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.4	ME 40: OPERATING MODE: AUTOMATIC	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.5	ME 41: OPERATING MODE: SETUP	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.4.6	ME 42: OPERATING MODE: INCHING MODE PANEL	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.7	ME 43: OPERATING MODE: INCHING MODE CABLE FRONT	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.8	ME 47: OPERATING MODE: INCHING MODE SINGLE AXES	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.9	ME 49: OPERATING MODE: INCHING MODE INFEED	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.10	ME 160: MACHINE: OPERATIONAL	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.11	ME 448: ROBOT 1: REFERENCE RUN	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.4.12	ME 2003: CODE READER LEAFLET: READ ERROR	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.4.13	ME 2004: CODE READER CARTON: READ ERROR	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>				
9.5	Test protocols - Warnings (WA)					
9.5.1	WA 5: MACHINE: COMPRESSED AIR SWITCHED OFF	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>				
9.5.2	WA 29: OPERATOR: NO USER LOGGED IN	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> <li>Machine cannot be started as long as warning is active</li> </ul>				
9.5.3	WA 45: CONTROL CABINET: UPS NOT READY	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>				
9.5.4	WA 220: CARTON: PREWARNING LOW STOCK - IB32_B01	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>				
9.5.5	WA 800: LEAFLET INSERTER: MINIMAL SUPPLY	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>				
9.6	Test protocols - Faults (FLT)					
9.6.1	FLT 3: OPERATOR: NORMAL STOP ACTIVATED	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.2	FLT 4: OPERATOR: INCORRECT OPERATING MODE SELECTED	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.3	FLT 5: COMPRESSED AIR: MONITORING INLET PRESSURE	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.4	FLT 7: COMPRESSED AIR: MONITORING SAFE SHUTDOWN	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.5	FLT 11: MOTION DRIVES: OVERLOAD POWER SUPPLY - IK00_Q10	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.6	FLT 17: OPERATOR: OPERATING MODE CHANGE	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.7	FLT 22: VACUUM: OVERLOAD PUMP	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.8	FLT 23: VACUUM: MONITORING NEGATIVE PRESSURE	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.9	FLT 34: MACHINE: REPAIR SWITCH DRIVES SWITCHED OFF - IW00_Q02	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.10	FLT 42: CONTROL CABINET S1: OVERTEMPERATU RE - IW00_B13	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.11	FLT 43: CONTROL CABINET: VOLTAGE MONITORING	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.12	FLT 45: CONTROL CABINET: UPS NOT READY	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.13	FLT 78: EMERGENCY STOP: SAFETY CIRCUIT NOT ACTIVE	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				



No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.14	FLT 79: EMERGENCY STOP ACTIVATED: LINE	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.15	FLT 81: EMERGENCY STOP ACTIVATED: OPERATING PANEL - IF91_S90	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.16	FLT 86: GUARD OPEN: BOTTOM [6]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.17	FLT 87: GUARD OPEN: CARTON BELT [4]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.18	FLT 88: GUARD OPEN: INSERTION REAR [13]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.19	FLT 110: PRODUCT SENSING: CONSECUTIVE FAULT EXCEED HEIGHT - IB10_B02	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.20	FLT 111: PRODUCT SENSING: CONSECUTIVE FAULT - IB10_B01	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.21	FLT 112: PRODUCT SENSING: SENSOR MONITORING - IB10-B01	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.22	FLT 113: PRODUCT SENSING: SENSOR MONITORING EXCEED HEIGHT - IB10_B02	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.23	FLT 120: INSERTION: SAFETY SENSOR - IB36_B01	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.24	FLT 122: PRODUCT CHAIN: OVERFILL COLLECTING BOX - IB80_B02	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.25	FLT 126: INSERTION: OVERLOAD PREINSERTION	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.26	FLT 129: INSERTION: MONITORING SENSOR SAFETY SENSOR - IB36_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.27	FLT 173: INSERTION: SLIDE IN 1 NOT IN POSITION - IW40_B10	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.28	FLT 174: INSERTION: SLIDE IN 2 NOT IN POSITION - IW40_B11	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.29	FLT 175: INSERTION: SLIDE IN 3 NOT IN POSITION - IW40_B12	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.30	FLT 176: INSERTION: SLIDE IN 4 NOT IN POSITION - IW40_B13	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.31	FLT 200: MACHINE: JAM AT DISCHARGE	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.32	FLT 201: DOWNSTREAM: STOP FROM MACHINE 1	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.33	FLT 210: GUARD OPEN: CARTON MAGAZINE [5]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.34	FLT 211: EMERGENCY STOP ACTIVATED: DISCHARGE	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.35	FLT 212: GUARD OPEN: DISCHARGE TOP [1]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.36	FLT 213: CARTON: OVERLOAD SIDE FLAP FOLDER - IB37_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.37	FLT 220: CARTON: STOCK AT THE END - IA30_B02	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.38	FLT 221: MACHINE: COVER RAIL OPEN - IA30-B03	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.39	FLT 222: CARTON: CONSECUTIVE FAULT CROSSCHECK - IA30_B01	<ul style="list-style-type: none"> <li>After 3 undetected cartons machine stops</li> <li>Fault message is displayed on control panel</li> </ul>				
9.6.40	FLT 223: CARTON: PICKUP CHECK - IA30_B04	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.41	FLT 224: CARTON BELT: OVERLOAD	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.42	FLT 225: CARTON: CONSECUTIVE FAULT CODE READER - IB75_B01	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> </ul>				
9.6.43	FLT 226: CARTON:\FAULT CODE READER - IB75_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>				
9.6.44	FLT 227: CARTON: SENSOR MONITORING CROSSCHECK - IA30_B01	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.45	FLT 250: CARTON EJECTION 1: OVERFILL COLLECTING CONTAINER - IQ82_B03	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.46	FLT 251: CARTON EJECTION 1: CROSS CHECK - IQ82_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.47	FLT 254: CARTON REJECT 1: SENSOR MONITORING CROSS CHECK - IQ82_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.48	FLT 270: CARTON: OPEN FLAP: SENSOR MONITORING COVER FLAP FRONT - IB86_B01	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.49	FLT 271: CARTON: OPEN FLAP: SENSOR MONITORING COVER FLAP REAR - IB86_B02	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.50	FLT 272: CARTON: OPEN FLAP: SENSOR MONITORING SIDE FLAP FRONT - IB86_B03	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.51	FLT 273: CARTON: OPEN FLAP: SENSOR MONITORING SIDE FLAP REAR - IB86_B04	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.52	FLT 289: CARTON: OPEN FLAP: CONSECUTIVE FAULT COVER FLAP -IB86_B01 / IB86_B02	<ul style="list-style-type: none"> <li>Machine stop after detecting a open cover flap</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.53	FLT 294: CARTON: OPEN FLAP: CONSECUTIVE FAULT SIDE FLAP -IB86_B03 / IB86_B04	<ul style="list-style-type: none"> <li>Machine stop after detecting a open side flap three times</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.54	FLT 301: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN PRODUCT CHAIN - IX161_B10	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				



No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.55	FLT 302: LEAFLET: CROSS CHECK EJECTION - IX161_B12	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.56	FLT 304: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN UNIT - X161_B11	<ul style="list-style-type: none"> <li>After 1 missing leaflet machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.57	FLT 321: LEAFLET: CONSECUTIVE FAULT CODE READER REAR - IB75_B05	<ul style="list-style-type: none"> <li>Leaflets with wrong / missing code will be ejected</li> <li>After 3 defective leaflets machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.58	FLT 322: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN CARTON - IB75_B04	<ul style="list-style-type: none"> <li>After 3 missing leaflets machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.59	FLT 324: LEAFLET: FAULT CODE READER REAR - IB75_B05	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.60	FLT 325: LEAFLET: SENSOR MONITORING CROSS CHECK IN CARTON - IB75-B04	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.61	FLT 326: LEAFLET: SENSOR MONITORING CROSS CHECK IN PRODUCT CHAIN - IX161_B10	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.62	FLT 412: ROBOT 1: EMERGENCY STOP FRONT ACTIVATED	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.63	FLT 421: ROBOT 1: GUARD OPEN: FRONT LEFT [12]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.64	FLT 422: ROBOT 1: GUARD OPEN: FRONT RIGHT [11]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.65	FLT 433: ROBOT 1: INLET: OVERLOAD - W154_B35	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.66	FLT 441: ROBOT 1: BELT 1: FAULT	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.67	FLT 457: ROBOT 1: MONITORING COMPRESSED AIR	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.68	FLT 800: LEAFLET INSERTER: MINIMAL STOCK	<ul style="list-style-type: none"> <li>Machine stops after 10 leaflets has been requested</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.69	FLT 807: LEAFLET INSERTER: NOT IN OPERATIONAL	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.70	FLT 808: LEAFLET INSERTER: GUARD OPEN: REAR [16]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.71	FLT 822: LEAFLET INSERTER: EMERGENCY STOP ACTIVATED	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.72	FLT 843: LEAFLET INSERTER: CONTROL CABINET: VOLTAGE MONITORING	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.73	FLT 1212: GUARD OPEN: COLLECTING CONTAINER 1 [2]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.74	FLT 1213: CARTON EJECTION 1: OVERFILL GUARD COLLECTING CONTAINER	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.75	FLT 1416: ROBOT 1: EMERGENCY STOP REAR ACTIVATED	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.76	FLT 1417: ROBOT 1: GUARD OPEN: REAR LEFT [18]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.77	FLT 1418: ROBOT 1: GUARD OPEN: REAR RIGHT [17]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.78	FLT 1419: ROBOT 1: RANGE LIMIT REACHED	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.79	FLT 1433: ROBOT 1: VACUUM MONITOR: SUCTION CUP 1	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.80	FLT 1434: ROBOT 1: VACUUM MONITOR: SUCTION CUP 2	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.81	FLT 1435: ROBOT 1: VACUUM MONITOR: SUCTION CUP 3	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.82	FLT 1443: ROBOT 1: CONTROL CABINET: VOLTAGE MONITORING	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.83	FLT 2001: GUARD OPEN: BACK SIDE BELOW LOADING [14]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.84	FLT 2002: GUARD OPEN: BACKSIDE VACUUM PUMP [15]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.85	FLT 2003: NUMBER OF REQUESTED TARA PARTS REACHED	<ul style="list-style-type: none"> <li>Machine stops after 13 good cartons passed the machine</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.86	FLT 2004: GUARD OPEN: PRODUCT EJECTION COLLECTING BOX [3]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.87	FLT 2010: LEAFLET INSERTER: GUARD OPEN: BOTTOM LEFT [10]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.88	FLT 2011: LEAFLET INSERTER: GUARD OPEN: BOTTOM RIGHT [9]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.89	FLT 2012: LEAFLET INSERTER: GUARD OPEN: TOP LEFT [8]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.90	FLT 2013: LEAFLET INSERTER: GUARD OPEN: TOP RIGHT [7]	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.91	FLT 2017: LEAFLET: MONITORING SENSOR: LEAFLET NOT EJECTED - X161_B12	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.92	FLT 2022: LEAFLET: MONITORING PROPER SIGNAL CODE READING LEAFLET REAR - IB75_B05	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.93	FLT 2046: INFEED 2: PUCK NOT EMPTY AT OUTFEED BELT	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.94	FLT 2047: CODE READER CARTON: NO CODE LOADED	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.95	FLT 2048: CODE READER LEAFLET: NO CODE LOADED	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				

No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.96	FLT 2057: CARTON REJECT 1: CROSS CHECK CARTON REJECT IQ82_B10	<ul style="list-style-type: none"> <li>If the sensor "CAR1.Q82-B10 detects that the faulty carton is missing, the machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.97	FLT 2058: CARTON REJECT 1: SENSOR MONITORING CROSS CHECKCARTON REJECTED - IQ82_B10	<ul style="list-style-type: none"> <li>Machine starts and stop after some cycles</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.98	FLT 2061: INSERTION: MONITORING SENSOR: OVERLOAD PREINSERTION -W40-B02	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				
9.6.99	FLT 2062: ROBOT 1: MONITORING SENSOR: PRODUCT SENSING - W154_B37	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>				



No.	Test title	Acceptance criteria	Deviation (No.)	Results comply		
				Test (yes/no)	Retest (yes/no)	Date/Signature
9.6.100	FLT 2063: ROBOT 1: MONITORING SENSOR: PUCK NOT EMPTY AT OUTFEED BELT - W154_B38	<ul style="list-style-type: none"><li>Machine starts and stop after some cycles</li><li>Fault message is displayed on control panel</li><li>Machine cannot be started as long as fault is active</li></ul>				
9.6.101	FLT 2064: MONITORING SENSOR: JAM AT DISCHARGE - X85_B01	<ul style="list-style-type: none"><li>Fault message is displayed on control panel</li><li>Machine cannot be started as long as fault is active</li></ul>				

For Chapter 9 note only the execution protocols where deviations occurred

9	Alarm Function Tests
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9.1	Test protocols - Function tests software switches operating mode (SWSOPM)
-----	---

Chap./ SWSOPM No.	Deviation No.	Chap/ SWSOPM No.	Deviation No.

9.2	Test protocols - Function tests software switches operating mode drive (SWSOPM_DRV)
-----	---

Chap./ SWSOPM No.	Deviation No.	Chap/ SWSOPM No.	Deviation No.

9.3	Test protocols - Function tests software switches (SWS )
-----	--

Chap./ SWS No.	Deviation No.	Chap./ SWS No.	Deviation No.

9.4	Test protocols - Messages (ME)
-----	--------------------------------

Chap./ ME No.	Deviation No.	Chap./ ME No.	Deviation No.

9.5	Test protocols - Warnings (WA)
-----	--------------------------------

Chap./ WA No.	Deviation No.	Chap./ WA No.	Deviation No.

9.6	Test protocols - Faults (FLT)
-----	-------------------------------

Chap./ FLT No.	Deviation No.	Chap./ FLT No.	Deviation No.

Comments	<div></div>	
Results comply	yes/no	Date/Initials
	<div></div>	<div></div>

### 7.3 Deviation sheet

After execution the filled in deviation sheets will be attached to this document and the final number of attached pages has to be documented.

Empty forms are in chapter 7.5 "Forms", page 53.

Number of attached pages: \_\_\_\_\_

## 7.4 Change control sheet

After execution the filled in change control sheets will be attached to this document and the final number of attached pages has to be documented.

Empty forms are in chapter 7.5 "Forms", page 53.

Number of attached pages: \_\_\_\_\_

## 7.5 Forms



### INFORMATION

Please use the following forms as master copies when a deviation sheet or a change control sheet is required.

## Alarm and Function Testing Execution

**CUC 2002**

**Cartoning machine**

**100261**

**Glaxowellcome Production**

**France**



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## 1 Software version

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Documentation of software version used for test execution</li> </ul>	
<b>Test procedure</b>		
Required operations	<ul style="list-style-type: none"> <li>Write down in table below the installed software version (Baseline) before execution of alarm and function testing.</li> </ul>	
<b>Software/Firmware</b>	<b>Version</b>	
Baseline	<input type="text"/>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>The software version is documented.</li> </ul>	<input type="text"/>
Comments	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 2 Check HMI menu, buttons and switches

### 2.1 Spotcheck HMI

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Menu check of HMI menu tree</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User Admin is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Copy the menu tree from the operation manual chap. 5</li> <li>Select longest tree as example (or one of the longest trees)</li> <li>Go step by step through the selected tree</li> <li>Control the menu and the names of the page tabs</li> <li>Attach the copy to this test</li> </ul>
Comments	<ul style="list-style-type: none"> <li>This is a spotcheck test. Only the longest menu tree needs to be checked</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>HMI menu and page tab spotcheck is OK</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



### 3 Access protection

#### 3.1 USER CONFIGURATION FOR VALIDATION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>This configuration is necessary to create an user for the following validation procedure</li> </ul>
<b>Test procedure</b>	
Required operations	<ul style="list-style-type: none"> <li>Log in with user "adminlocal"</li> <li>Select the menu "System configuration"</li> <li>Select the submenu "User management"</li> <li>In submenu "User Management", press "General settings"</li> </ul> <p>Create following configuration:</p>
	GENERAL SETTINGS
	<b>User</b>
	<ul style="list-style-type: none"> <li>Display last user (min.) 0</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>User settings are adjusted according to data of table</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 3.2 (Domain) Log-in

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• No action without logged in user</li> <li>• Login requires the individual user name and password</li> <li>• Checking the number of user-login actions</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Adminlocal has created a new group to execute all the following tests Name of the group <input type="text"/></li> <li>• Machine is operational</li> <li>• No user is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Press "Start"</li> <li>• Warning 29 "Operator: No user logged in" is indicated</li> <li>• Touch any function key (no function can be actuated)</li> <li>• Call up function "Log in user"</li> <li>• Log in with user name and password</li> <li>• Operate any function key (function is actuated)</li> <li>• Try to log in a second user with name and password (not possible)</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• Activation of machine stop (Normal Stop) and Emergency-Stop possible without logged in user</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• None</li> </ul>

Test result	yes/no
Acceptance criteria	
<ul style="list-style-type: none"><li>No function can be actuated until a valid user is logged in</li></ul>	<input type="text"/>
<ul style="list-style-type: none"><li>Successful login, functions can be induced</li></ul>	<input type="text"/>
<ul style="list-style-type: none"><li>Only one user can be logged in at a time</li></ul>	<input type="text"/>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 3.3 (Domain) Automatic log-out

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check of access protection: Time log-out</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is operational</li> <li>No user is logged in</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Call up function „Log in user“</li> <li>Enter user name and password</li> <li>No action for x minutes Time of last action: <input type="text"/></li> <li>Enter user name and password</li> <li>Select submenu "Diagnostics" → press "Audit view"</li> <li>Check in audit trail the correct entry with userID, date, time and action „Auto log-out“</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>Print out audit trail after having finished all tests</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Automatic logout after x minutes inactivity x = <input type="text"/></li> <li>Entry to audit trail that user has been logged out automatically <input type="text"/></li> </ul>
<b>Comments</b>	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 3.4 (Domain) Log-out

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check of User log-out</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is operational</li> <li>User is logged in</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Log out user</li> <li>Time of log-out: <input type="text"/></li> <li>Press any function key - no function can be activated</li> <li>Log in user &gt; enter user name and password</li> <li>Select submenu "Diagnostics" → "Audit view"</li> <li>Check in audit trail the correct entry with userID, date, time and action "Auto log-out"</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Activation of machine stop (Normal Stop) and Emergency-Stop possible without logged in user</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>No operation can be actuated</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Entry to audit trail about the implemented steps</li> </ul>	<input type="text"/>
Comments	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 4 Audit trail

### 4.1 Audit trail entries (parameter)

<b>Test objective</b>	<ul style="list-style-type: none"> <li>All user actions related to process, quality and product as well as all parameter changes must be recorded in the audit trail</li> </ul>		
<b>Test procedure</b>			
Test prerequisites	<ul style="list-style-type: none"> <li>User "adminlocal" is logged in</li> <li>Machine is ready in automatic mode</li> <li>Date and time are identical to external clock</li> </ul>		
Required operations		Time code hr : min	Confirmation in audit trail ✓
	<ul style="list-style-type: none"> <li>Press Emergency Stop</li> </ul>	<input type="text"/> : <input type="text"/>	<input type="checkbox"/>
	<ul style="list-style-type: none"> <li>Release Emergency Stop</li> </ul>	<input type="text"/> : <input type="text"/>	<input type="checkbox"/>
	<ul style="list-style-type: none"> <li>Complete the batch</li> <li>Select submenu "Diagnostics" &gt; press "Audittrail viewer" &gt; press "Display/Viewer"</li> <li>Check entries for correctness and confirm with "✓"</li> <li>Print out the "Audit trail" and attach the document to the test protocol</li> </ul>		
Comments	<ul style="list-style-type: none"> <li>21 CFR Part 11: §11.10(d,g), §11.200(a), §11.300(a,b,d)</li> <li>GMP Vol.4 Annex 11: 12.1; 12.3</li> </ul>		
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>		

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>All entries show the activity, user name, date and time correctly</li></ul>	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 4.2 Audit trail entries

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Structure of entries</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is operational</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Log in user "adminlocal"</li> <li>• Log out user "adminlocal"</li> <li>• Log in user "adminlocal"</li> <li>• Open guard door</li> <li>• Close guard door:</li> <li>• Press "Reset"</li> <li>• Select "Diagnostics"</li> <li>• Call up function "Audittrail viewer"</li> <li>• Press "Filter setting"</li> <li>• Select filter "User name" by activating the checkmark</li> <li>• Press "Setting" within the filter setting "User name"</li> <li>• Move one of the given users from field "All" to the field "Selected" (e.g. validation)</li> <li>• Select filter "Time period"</li> <li>• Press "Setting" within the filter setting "Time period"</li> <li>• Adjust the time period to the last 10 minutes</li> <li>• Confirm with the checkmark</li> <li>• Close the menu "Filter setting" by using of the checkmark</li> <li>• Press "Display" within the "Audittrail viewer"</li> <li>• The corresponding audit view of user "adminlocal" is displayed</li> <li>• Call up function "Print"</li> <li>• The audit trail printout displays the selected date and time</li> <li>• Select filter settings button</li> <li>• Select filter "Faults"</li> <li>• Confirm with the checkmark</li> <li>• Press "Refresh"</li> <li>• The corresponding audit view is displayed</li> <li>• Try to modify or delete last entry in audit trail</li> <li>• Print out audit trail after completion of the tests</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• All entries in the audit trail show the activity, user name, date and time</li> <li>• The entries can be filtered and printed online based on various criteria (user, activity, date and time, batch)</li> <li>• Entries can not be modified or deleted</li> </ul>



<b>Test procedure</b>		
Comments	<ul style="list-style-type: none"> <li>Select an audit trail in "Audittrail viewer" within a time frame showing actions</li> <li>21 CFR Part 11: §11.10(d,g), §11.200(a), §11.300(a,b,d)</li> <li>GMP Vol.4 Annex 11: 12.1; 12.3</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Remove "Filter setting"</li> <li>Close "Audit trail viewer"</li> <li>Several filter settings can be activated for the next start of the "Audittrail viewer"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>All entries in the audit trail show the activity, user name, date and time</li> <li>The entries can be filtered and printed online based on various criteria (user, activity, date and time)</li> <li>Entries can not be modified or deleted</li> </ul>	<input type="text"/> <input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 5 Version management for recipe


### 5.1 Version management in case of new recipe (product version)

Test objective	<ul style="list-style-type: none"> <li>All recipe data are managed in menu "Recipe" &gt; submenu "Recipe management"</li> </ul>
Test procedure	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is operational</li> <li>User "adminlocal" is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Recipe" &gt; select submenu "Recipe management"</li> <li>Select one recipe and press "Versions"</li> <li>Select the current version and press "Create new recipe"</li> <li>Recipe version number "x" = <input type="text"/> is created</li> <li>Change the recipe name of recipe version "x" (e.g. "Validation A 500 mg")</li> <li>Call up the new generated recipe in the window "recipe version" (e.g. "Validation A 500 mg")</li> <li>Select a version and press "New draft version"</li> <li>A new version draft with count up number "y" = <input type="text"/> is created</li> <li>Select draft "y" and press "Enable"</li> <li>Confirm message</li> <li>Select the current recipe version in the window</li> <li>Press "Activate"</li> <li>In the overview "Current recipe" the recipe is shown (e.g. Validation A 500 mg)</li> <li>Version x.y = <input type="text"/> (e.g. 0002.0001) released</li> </ul>
Comments	<ul style="list-style-type: none"> <li>21 CFR Part 11: §11.10 (b)</li> <li>GMP Vol.4 Annex 11: 8.1</li> </ul>

Test result		yes/no
Acceptance criteria	• When creating a new recipe, it will be generated with the designation count up number "x"; a new version with count up number "y"	<input type="text"/>
	• After enabling the draft version (only) the status changes	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 5.2 Disable recipe version (product data)

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether recipe version can be deleted</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is operational</li> <li>User "adminlocal" is logged in</li> </ul>
<b>Test 1</b>	<b>Delete a version</b>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Recipe" &gt; select submenu "Select recipe management"</li> <li>Select the new recipe (e.g. Validation A 500 mg)</li> <li>Press "Versions"</li> <li>Create a new draft version</li> <li>Select the new draft version</li> <li>Press "Delete" and confirm (note time of action) </li> <li>Leave menu „Recipe versions product“</li> <li>Leave menu "Recipe list product"</li> <li>Select menu "System configuration" &gt; select submenu "Diagnostic"</li> <li>Select "Audittrail viewer"</li> <li>Select "Filter settings"</li> <li>Activate checkmarks for "Function"</li> <li>Select "Function setting"</li> <li>Select "Size management" and change to selected</li> <li>Select "Size management" and press "Events"</li> <li>Select "Recipe deleted" and change to selected</li> <li>Confirm tree times with "Checkmark" and press button "Display"</li> <li>Check the entry in the audit trail</li> <li>Print out audit trail after completion of the tests</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Versions can be deleted</li> <li>When the corresponding filters are selected, all existing versions are open for viewing</li> <li>Entry to audit trail is correct</li> </ul>
Comments	<ul style="list-style-type: none"> <li>If no active version is available create a "New draft version"</li> <li>Inactive versions can be deleted by the Admin only</li> <li>Enabled recipes can not be deleted</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

<b>Test procedure</b>	
<b>Test 2</b>	<b>Block a recipe version</b>
Required operations	<ul style="list-style-type: none"> <li>• Select menu "Recipe" &gt; select submenu "Recipe management"</li> <li>• Select the new recipe (e.g. Validation A 500 mg)</li> <li>• Press "Versions"</li> <li>• Create a new draft version of the draft version</li> <li>• Select the new draft version</li> <li>• Press "Disable" (note time of action) <input type="text"/></li> <li>• Press filter "Disable"</li> <li>• Leave menu „Recipe versions product“</li> <li>• Leave menu "Recipe list product"</li> <li>• Select menu "System configuration" &gt; select submenu "Diagnostic"</li> <li>• Select "Audittrail viewer"</li> <li>• Select "Filter settings"</li> <li>• Activate checkmarks for "Function"</li> <li>• Select "Function setting"</li> <li>• Select "Size management" and change to selected</li> <li>• Select "Size management" and press "Events"</li> <li>• Select "Recipe disabled" and change to selected</li> <li>• Confirm tree times with "Checkmark" and press button "Display"</li> <li>• Check the entry in the audit trail</li> <li>• Print out audit trail after completion of the tests</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• Versions can be blocked</li> <li>• When the corresponding filters are selected, all existing versions are open for viewing</li> <li>• Entry to audit trail is correct</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• If necessary create a "New draft version" to perform the test</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• None</li> </ul>

Test result		yes/no
Acceptance criteria	• Versions can be deleted or disabled	<input type="text"/>
	• When the corresponding filters are selected, all existing versions are open for viewing	<input type="text"/>
	• Entry to audit trail is correct	<input type="text"/>
Comments	<input type="text"/>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 5.3 Recipe versions for production

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check that only recipe versions with status “Draft” or “Enabled” can be activated for production</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>User “adminlocal” is logged in</li> <li>Machine is ready in automatic mode</li> <li>Recipe e.g. “Validation A 500mg” is created</li> <li>“Recipe Version” is created as disabled</li> <li>“Recipe Version” is created as deleted</li> <li>“Recipe Version” is created as enabled version</li> <li>“Recipe Version” is created as draft version</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu “recipe management” &gt; select “recipe management” &gt; SWS “recipe management”</li> <li>An overview of all recipes is displayed</li> <li>In overview window of recipes select recipe e.g. “Validation A 500mg” and press SWS “Versions”</li> <li>All filters are switched on</li> <li>Select a recipe version with status “Disabled”</li> <li>SWS “Activate” is not active</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Selected recipe version cannot be activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select a recipe version with status “Deleted”</li> <li>SWS “Activate” is not active</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Selected recipe version cannot be activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select a recipe version with status “Enabled”</li> <li>Press SWS “Activate”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Activated version is highlighted in green</li> <li>All settings for this recipe are taken over by program</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select a recipe version with status “Draft”</li> <li>Press SWS “Activate”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Activated version is highlighted in green</li> <li>All settings for this recipe are taken over by program</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press SWS “Print” and attach printout to the test *)</li> </ul>
Comments	<ul style="list-style-type: none"> <li>*) If no printer is available create pdf-file and print on an external printer</li> </ul>

Test result		yes/no
Acceptance criteria	• Disabled recipe versions can not be activated for production	<input type="text"/>
	• Only recipe versions with status “Draft” or “Enabled” can be activated for production	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	



## 5.4 Create new recipe on the basis of an existing recipe version

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Create new recipe on the basis of an existing recipe version</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is operational</li> <li>User "adminlocal" is logged in</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Select menu "Recipe" &gt; select submenu "Select recipe management"</li> <li>Select one recipe and press "Versions"</li> <li>Select the current version and press "Create new recipe"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Recipe version number "x" = <input type="text"/> is created</li> <li>A new recipe can be created on the basis of an existing recipe version</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "Change Recipe name", change the name of recipe version "x" (e.g. "Validation A 500 mg")</li> <li>Call up the new generated recipe in the window "recipe version" (e.g. "Validation A 500 mg")</li> <li>Select a version and press "New draft version"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>A new version draft with count up number "y" = <input type="text"/> is created</li> <li>A new draft version can be created on the basis of a current recipe version</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>A new recipe can be created on the basis of an existing recipe version</li> <li>A new draft version can be created on the basis of a current recipe version</li> </ul>	<input type="text"/> <input type="text"/>
<b>Comments</b>	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 5.5 Delete disabled recipe version

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether disabled recipe version can be deleted</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>User "adminlocal" is logged in</li> <li>Machine is ready in automatic mode</li> <li>Recipe version to be deleted is not active (e.g. "Validation A 500 mg")</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Select menu "recipe management" &gt; select "recipe management" &gt; SWS "recipe management"</li> <li>An overview of all recipes is displayed</li> <li>In overview window of recipes select recipe e.g. "Validation A 500 mg" and press SWS "Versions"</li> <li>All filters are switched on</li> <li>Select a recipe version with status "Disabled"</li> <li>Press SWS "Delete" and confirm indicated message</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Status of selected recipe version changes to "Deleted" and can not be enabled or activated</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Status of selected recipe version changes to "Deleted"</li> <li>Deleted recipe versions can no longer be enabled or activated</li> </ul>	<input type="text"/> <input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6 Batch Management

### 6.1 Create new batch

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether new batch can be created</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Recipe is enabled and active</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "production" &gt; select submenu "production"</li> <li>Enter in window "Batch" number "123" and confirm             <ul style="list-style-type: none"> <li>New batch is created</li> </ul> </li> <li>Press SWS "Start" to start new created batch and confirm indicated message</li> <li>Try to insert name and number for a new batch in window "Batch"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Creation of new batch is not possible (Number and name are deactivated fields while the previous batch is activated)</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press SWS "Complete" to complete the active batch and confirm indicated message</li> <li>Press SWS "X" to close window "Print batch data" and confirm indicated message</li> <li>Enter in window "Batch" number "1234" and confirm             <ul style="list-style-type: none"> <li>New batch is created</li> </ul> </li> </ul>
Consequence	<ul style="list-style-type: none"> <li>A new batch can only be created if previous batch has been completed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>A new batch can only be created if previous batch has been completed</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6.2 Start batch

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether batch can be started</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>A new batch has been created but not yet started</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press SWS “Start” and confirm indicated message</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Status of created and started batches changes from “Completed” to “Started”</li> <li>Batch information is displayed in submenu “Production”, SWS “Show batch data” in window “Batch”</li> </ul>
Comments	<ul style="list-style-type: none"> <li>It is not possible to create or start a new batch</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Only the new created batch can be started</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 6.3 Interrupt and resume batch

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether batch can be interrupted and resumed again</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>A batch has been started</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "production" &gt; select submenu "production"</li> <li>In window "Batch" press SWS "Interrupt" and confirm indicated message</li> <li>Press SWS "X" to close window "Print batch data"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>In overview Batch management status of active batch changes from "Started" to "Interrupted"</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "production" &gt; select submenu "production"</li> <li>In window "Batch" press SWS "Resume" and confirm indicated message</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>In overview Batch management status of active batch changes from "Interrupted" to "Resumed"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Batch can be interrupted and resumed</li> </ul> <input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6.4 Complete batch

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether batch can be completed</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>A batch has been started or interrupted</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "production" &gt; select submenu "production"</li> <li>In window "Batch" press SWS "Complete" and confirm indicated message</li> <li>Press SWS "X" to close window "Print batch data" and confirm indicated message</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>In overview Batch management status of active batch changes to "Completed"</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Try to resume batch</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>After batch is completed it cannot be resumed again</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>After batch is completed, batch data can be saved or printed and batch cannot be resumed again</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6.5 Batch history

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether batch history can be displayed</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Batch is completed</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Batch history" &gt; select SWS "Batch management"</li> <li>Select a batch with status "Completed" and press SWS "Show"             <ul style="list-style-type: none"> <li>Window "Batch view" opens and batch information such as "Batch-ID.", "Batch name", "Batch size" and "Batch part size" as well as active recipe version are displayed</li> </ul> </li> <li>Press SWS "History"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>"Batch history" displays when and by whom the status of the batch has been changed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>"Batch history" displays when and by whom status of batch has been changed</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6.6 Store batch data

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether batch data can be stored</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>A batch with status "Completed" is created</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Select menu "Batch History" &gt; select SWS "Batch management"</li> <li>Select a batch with status "Completed"</li> <li>Batch-ID.: <input type="text"/></li> <li>Press SWS "Store"</li> <li>Select a folder and press SWS "✓"</li> <li> <ul style="list-style-type: none"> <li>"Message ("Store") "</li> <li>Do you want to delete the sources after batch storage is complete?" is displayed</li> </ul> </li> <li>Press SWS "No"</li> <li>Confirm indicated message ("Store")</li> <li>Close window</li> <li>In "Batch History" press SWS "Batch management"</li> <li>Choose the batch and press SWS "Show"</li> <li>Press SWS "History"</li> <li>Note time when .zip-file has been stored <input type="text"/></li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Batch is still listed in overview "Batch management"</li> <li>Status has changed from "Completed" to "Stored"</li> <li>Batch is stored in selected folder with file name: batch number + _Date + _Time?? + ".zip"</li> </ul> <p>Example: batch no.: 12345 file name: 12345_20140128_122935.zip</p>



Test procedure	
Required operations	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select submenu "Batch history" &gt; select SWS "Batch management"</li> <li>Select a batch with status "Completed"</li> <li>Batch-ID.: <input type="text"/></li> <li>Press SWS "Store"</li> <li>Select a folder and press SWS "✓"</li> <li>Message ("Store") "The storage result is good. Do you want to delete the sources?" is displayed</li> <li>Press SWS "Yes"</li> <li>Confirm indicated message ("Store")</li> <li>Close window</li> <li>Press SWS "Batch management"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Batch is no longer listed in overview</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Batches are stored as .zip-file in selected folder with correct name (+ date and time)</li> </ul>	<input type="text"/>
Comments	<input type="text"/>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 6.7 Restore batch data

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether stored batch data can be restored</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>A batch with status "Stored" is created</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select submenu "Batch history" &gt; select SWS "Batch management"</li> <li>Press SWS "Restore"</li> <li>Select a stored file</li> <li>Batch-ID.: <input type="text"/></li> <li>Select a folder and press SWS "✓"             <ul style="list-style-type: none"> <li>Message ("Store") "The target already exists. Do you really want to overwrite?" is displayed</li> </ul> </li> <li>Press SWS "Yes"</li> <li>Select restored file in window "Batch management" and press SWS "Show"</li> <li>Press SWS "History"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>.zip-file is not deleted</li> <li>Batch is listed in overview with status "Restored"</li> <li>Existing data is replaced in overview</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select submenu "Batch history" &gt; select SWS "Batch management"</li> <li>Press SWS "Restore"</li> <li>Select same file as before and press SWS "✓"             <ul style="list-style-type: none"> <li>Message ("Store") "The target already exists. Do you really want to overwrite?" is displayed</li> </ul> </li> <li>Press SWS "No"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Action is interrupted</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>Batch is restored from .zip-file and listed in "Batch management"</li></ul>	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 6.8 Delete batch data

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether only stored batch data can be deleted</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Batch with status "Stored", "Restored" and "Completed" are created</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select "Batch history" &gt; Select SWS "Batch management"</li> <li>Select batch with status "Stored"</li> <li>Press SWS "Delete" <ul style="list-style-type: none"> <li>Message ("Store") "Do you really want to delete 1 batches?" is displayed</li> </ul> </li> <li>Press SWS "Yes"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Batch is no longer listed in overview</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select batch with status "Restored"</li> <li>Press SWS "Delete" <ul style="list-style-type: none"> <li>Message ("Store") "Do you really want to delete 1 batches?" is displayed</li> </ul> </li> <li>Press SWS "Yes"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Batch is no longer listed in overview</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select batch with status "Completed"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>SWS "Delete" is not active</li> <li>Batch cannot be deleted</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Batches with status “Restored” can be deleted from “Batch management”	<input type="text"/>
	• Batches with status “Stored” can be deleted from “Batch management”	<input type="text"/>
	• Batches with status “Completed” can not be deleted from “Batch management”	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 6.9 Print history of batch data

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether history of batch data can be printed</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Batch with status "Completed" is created</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select submenu "Batch history" &gt; select SWS "Batch management"</li> <li>Select batch with status "Completed"</li> <li>Press SWS "History"             <ul style="list-style-type: none"> <li>Message ("History") "The <i>selected batch</i> was chosen for the history." is displayed</li> </ul> </li> <li>Press SWS "Ok"</li> <li>Select menu "Batch history"</li> <li>Recipe data and results can be viewed for the selected batch</li> <li>Press SWS "Print batch"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Selected batch data can be printed as hard copy on connected printer or as pdf-file to be saved on a selected drive</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Recipe data and results can be viewed and printed</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 6.10 Print batch data

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Print batch data</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User "validation" is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Batch management" &gt; select submenu "Batch History" &gt; select SWS "Batch management"</li> <li>Select batch with status "Completed"</li> <li>Press SWS "History" <ul style="list-style-type: none"> <li>Message ("History") "The <i>selected batch</i> was chosen for the history" is displayed</li> </ul> </li> <li>Press SWS "Ok"</li> <li>Change to submenu "History"</li> <li>Result and Recipe data can be viewed for the selected batch</li> <li>Press SWS "Print batch"</li> <li>Select pdf for "Result" and "Recipe data"</li> <li>Select printer for "Result" and "Recipe data"</li> <li>In "Configuration" select target File path for storage and printer</li> <li>Press SWS "✓"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Result and recipe data are exported to selected folder as .pdf-file with file name "batch number + _Result.pdf" resp. "batch number + _RecipeData.pdf" *) cted folder as .pdf-file with file name "batch number + _Result.pdf" *)</li> <li>Recipe data are printed on connected printer</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select menu "Production" &gt; select submenu "Production"</li> <li>Create a new batch</li> <li>Start the new batch and confirm indicated message</li> <li>Complete the new batch <ul style="list-style-type: none"> <li>Message "Do you really want to complete the batch?" is displayed</li> </ul> </li> <li>Press SWS "OK" <ul style="list-style-type: none"> <li>Message "Print batch data" is displayed</li> </ul> </li> <li>Select pdf for "Alarms" and "Parameter change"</li> <li>Select printer for "Parameter change"</li> <li>In "Configuration" select target File path for storage and printer</li> <li>Press SWS "✓"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Batch alarm list and parameter change are exported to selected folder as .pdf-files with file names "batch number + _Alarm.pdf" and + "batch number + _Parameter.pdf" *)</li> <li>Batch parameter change is printed on connected printer.</li> </ul>

<b>Test procedure</b>		
Comments	<ul style="list-style-type: none"><li>• *) Date and time can be added in file name if needed</li></ul>	
Acknowledgement	<ul style="list-style-type: none"><li>• None</li></ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"><li>• Batch data can be printed when active batch is completed or after a batch has been selected for history</li></ul>	<input type="text"/>
	<ul style="list-style-type: none"><li>• Batch data can be printed on connected printer</li></ul>	<input type="text"/>
	<ul style="list-style-type: none"><li>• Batch data can be exported to a selected folder as .pdf-file</li></ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 7 Reports and print outs

### 7.1 Batch print out

Test objective	<ul style="list-style-type: none"> <li>Check whether batch data can be printed</li> </ul>
Test procedure	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User "adminlocal" is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Select "Archive"</li> <li>Select menu "Batch management"</li> <li>Select batch with status "Completed"</li> <li>Press SWS "History" <ul style="list-style-type: none"> <li>Message ("History") "The <i>selected batch</i> was chosen for the history" is displayed</li> </ul> </li> <li>Press SWS "Ok"</li> <li>Press "Show &gt; Press "History"</li> <li>Change to submenu "Batch history" &gt; Press "Show batch data" &gt; Press "Print"</li> </ul>
	<ul style="list-style-type: none"> <li>Result and Recipe data can be viewed for the selected batch</li> </ul>
	<ul style="list-style-type: none"> <li>Change to "Batch history"</li> <li>Select pdf for "Result" and "Recipe data"</li> <li>In "Configuration" select target File path for storage</li> <li>Press SWS "✓"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Result and recipe data are exported to selected folder as .pdf-file with file name "batch number + _Result.pdf" resp. "batch number + _RecipeData.pdf" *)</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Attach the printout to this test (can be done at the end of testing).</li> <li>*) Date and time can be added in file name if needed</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Batch data can be printed (as pdf-file) after a batch has been selected for history	<input type="text"/>
	• Batch data can be exported	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 7.2 Parameter: Machine settings (Recipe)

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Parameter: Mechanical settings</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User "adminlocal" is logged in *)</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Call up "Recipe management"</li> <li>Press "Print active recipe"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Attach the printout to this test (can be done at the end of testing).</li> <li>*)Test can be done by all users of the "Group Management"</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Print out from the machine settings (Recipe) is possible</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 7.3 User right print out

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check whether list of user rights can be printed</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User "adminlocal" is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Call up "Settings" -&gt; page tab "User management" -&gt; select "Group Management"</li> <li>Choose the user group "Admin customer" (or "Administrator") and press "Configure" -&gt; select "all rights"</li> <li>Press "Print", save as a PDF-File and print it later.</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Attach the printout to this test (can be done at the end of testing).</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>It is possible to print or save the user rights</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 8 Basic function

### 8.1 Service: Clean Display

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Check of the "Clean Display" function</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User adminlocal is logged in</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Call up "Settings" -&gt; "Service" and press "Clean Display"</li> <li>If you press the button, a dialog window appears, where you can choose "Ok" or "Cancel"</li> <li>With "Ok" the display turns grey and no touch inputs can be done, and the time of 30 seconds runs down and is shown on the display</li> <li>After 30 seconds the HMI appears again</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Display turns grey and no touch input can be done <input type="text"/></li> <li>After 30 seconds the HMI appears again <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 8.2 Alarmlists

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Availability of Alarmlists</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Call up "Settings" -&gt; "Documentation"</li> <li>Lists of Faults, Warnings or Messages can be selected</li> <li>The complete lists of Faults, Warnings and Messages can be printed or saved as pdf</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Lists of the Faults, Warnings and Messages can be selected</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Lists of Faults, Warnings and Messages can be printed or saved as pdf</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 8.3 Working hours counter

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Display of working hours counter</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Go to "Settings" -&gt; "Information" submenu "Machine" to see "Working hours"</li> <li>On the display the working hours counter is shown</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Working hours counter is shown</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 8.4 Parameter limits

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test of limitation of Parameter limits</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>User adminlocal is logged in</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Call up "Recipe Management" -&gt; "Recipe Data"</li> <li>Select Parameter [1] in "Speeds" : [1] Automatic</li> <li>Click on value</li> <li>Try to enter a value greater than the maximum limit of the machine speed</li> <li>Try to enter a value smaller than the minimum limit of the machine speed</li> <li>Enter a value within the limits</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Limit values are shown in window</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Enter original value</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>A value greater than the maximum limit cannot be confirmed</li> <li>A value smaller than the minimum limit cannot be confirmed</li> <li>A value between the minimum and maximum limit can be confirmed</li> </ul>	<input type="text"/> <input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 8.5 HMI Language

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Availability and change of HMI languages</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Call up "System configuration" -&gt; "Language" and press "German"</li> <li>After pressing the button "German", the complete HMI texts change into German</li> <li>After pressing the button "English", the complete HMI texts change into English</li> <li>Call up "System configuration" -&gt; "Language" and press "French"</li> <li>After pressing the button "French", the complete HMI texts change into French</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>The HMI language switches to the chosen language</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9 Alarm Function Tests

### Important Information

The following table lists the fault messages, warning messages, messages and software switches which are displayed on the control panel but can be simulated only by program changes and are therefore not tested.



#### WARNING

**To perform a test procedure, it may be necessary to start the machine while the doors are open and the door contact switches are bridged.**

**Safety functions are not-active.**

**Severe injuries may result.**

- ▶ Only authorized/trained persons are allowed to run the machine.
- ▶ Special attention must be given and care taken when working in the danger zone without protection.

☞ Please note that some fault messages, warnings or messages may contain a variable which is generated e.g. from the servo drive or profibus and gives further information about this device. The variable depends on the actual fault and therefore may vary.

Message number	Message text
161	Motion control: Wait until operation
162	Motion control: Data transmission to motion drives
163	Motion control: Ready for power connection
164	Motion control: Synchronizing

Warning number	Warning text
15	Control-PC: Used disk space exceeds 80%
2001	Robot 1: Upline machine is not running

Fault number	Fault text
6	Ethercat: Fault
8	HMI: Fault communication to control
12	Motion controller: 0 : No error code active

Fault number	Fault text
13	Machine: Reference not set to zero
15	Control-PC: Used disk space exceeds 90%
20	Batch control: Partial batch obtained
21	Batch control: Complete batch obtained
26	Control cabinet: Com error safety plc
27	Servo drives: Incorrect cam data
28	Control cabinet: Monitoring error safety plc
35	Control cabinet: Monitoring main switch - IW00_B13
77	Machine: Fault monitoring contactors dropped away
83	Guard basic machine: Safety circuit not active
178	Motion drive slide in table: Fault
179	Motion drive slide in table: 0 : No error code active
186	Motion drive horizontal preinsertion: Fault
187	Motion drive vertical preinsertion: Fault
188	Motion drive insertion: Fault
191	Motion drive insertion: 0 : No error code active
192	Motion drive horizontal preinsertion: 0 : No error code active
193	Motion drive vertical preinsertion: 0 : No error code active
196	Motion drive main drive: Fault
198	Motion drive main drive: 0 : No error code active
237	Carton: Sensor monitoring pickup check - IA30_B04
285	Motion drive carton setup: Fault

Fault number	Fault text
288	Motion carton setup: 0 : No error code active
401	Robot 1: Motion drive: Fault
403	Robot 1: 0 : No error code active
430	Robot 1: Belt 1: Overload
455	Robot 1: Collision range
478	Robot 1: Motion control: Fault
480	Robot 1: Motion drive axis A: Fault
481	Robot 1: Motion drive axis B: Fault
482	Robot 1: Motion drive axis C: Fault
483	Robot 1: Motion drive rotary axis: Fault
486	Robot 1: Motion drive axis A: 0 : No error code active
487	Robot 1: Motion drive axis B: 0 : No error code active
488	Robot 1: Motion drive axis C: 0 : No error code active
489	Robot 1: Motion drive rotary axis: 0 : No error code active
589	Robot 2: Motion drive rotary axis: 0 : No error code active
1238	Motion drive outfeed belt, slide in: Fault
1239	Motion drive outfeed belt, slide in: 0 : No error code active
1240	Motion drive outfeed belt, opp. slide in: Fault

Fault number	Fault text
1241	Motion drive outfeed belt, opp. slide in: 0 : No error code active
2028	Leaflet inserter: Motion drive leaflet reject wheel: 0 : No error activated

## 9.1 Test protocols - Function tests software switches operation mode (SWSOPM)

### 9.1.1 SWSOPM 1: AUTOMATIC

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 "Operating mode: Automatic")</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test ME 40</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 2 "Setup"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME41 "Operating mode: Setup")</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test ME 41</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 1 “Automatic” is activated, Operating mode “Automatic” is active	<input type="text"/>
	• Test 1: SWSOPM 1 “Automatic” is activated, Message is displayed on control panel (ME 40)	<input type="text"/>
	• Test 2: SWSOPM 2 “Setup” is activated, Operating mode “Automatic” is not active	<input type="text"/>
	• Test 2: SWSOPM 2 “Setup” is activated, Message is displayed on control panel (ME41)	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.2 SWSOPM 2: SETUP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 2 "Setup"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME41 "Operating mode: Setup")</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 41</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 "Operating mode: Automatic")</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 41</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>



Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>• Test 1: SWSOPM 2 "Setup" is activated, Operating mode "Setup" is active <input type="text"/></li><li>• Test 1: SWSOPM 2 "Setup" is activated, Message is displayed on control panel (ME 41) <input type="text"/></li><li>• Test 2: SWSOPM 1 "Automatic" is activated, Operating mode "Setup" is not active <input type="text"/></li><li>• Test 2: SWSOPM 1 "Automatic" is activated, Message is displayed on control panel (ME 40) <input type="text"/></li></ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.3 SWSOPM 3: INCHING PANEL

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 3 "Inching panel"</li> <li>Press "Reset"</li> <li>Press "Start" and hold the button "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME42 "Operating mode: Inching mode panel")</li> <li>Operating mode "Inching panel" is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 42</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode panel</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 "Operating mode: Automatic")</li> <li>Operating mode "Inching panel" is not active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 40</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 3 "Inching panel" is activated, Operating mode "Inching panel" is active	<input type="text"/>
	• Test 1: SWSOPM 3 "Inching panel" is activated, Message is displayed on control panel (ME 42)	<input type="text"/>
	• Test 2: SWSOPM 1 "Automatic" is activated, Operating mode "Inching panel" is not active	<input type="text"/>
	• Test2: SWSOPM 1 "Automatic" is activated, Message is displayed on control panel (ME 40)	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.4 SWSOPM 4: INCHING CABLE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Plug in inching cable</li> <li>Activate SWSOPM 4 "Inching cable"</li> <li>Run the machine with inching cable</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME 43 "Operating mode: Inching mode cable front")</li> <li>Operating mode "Inching cable" is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 43</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode cable</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Remove inching cable</li> <li>Press "Reset"</li> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME 40 "Operating mode: Automatic")</li> <li>Operating mode "Inching cable" is not active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 43</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 4 "Inching cable" is activated, Operating mode "Inching cable" is active	<input type="text"/>
	• Test 1: SWSOPM 4 "Inching cable" is activated, Message is displayed on control panel (ME 43)	<input type="text"/>
	• Test 2: SWSOPM 1 "Automatic" is activated, Operating mode "Inching cable" is not active	<input type="text"/>
	• Test 2: SWSOPM 1 "Automatic" is activated, Message is displayed on control panel (ME 40)	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.5 SWSOPM 6: OPEN STOP BRAKE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 “Open stop brake”</li> <li>Select one of the drives</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Chosen drive can be moved manually</li> <li>Warning is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM 6 “Open stop brake” is activated, chosen drive can be moved manually <input type="text"/></li> <li>SWSOPM 6 “Open stop brake” is activated, Warning is displayed on control panel <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.1.6 SWSOPM 7: ZERO DRIVE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Servo drives are set to zero position</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Choose one of the drives</li> <li>Confirm with the checkmark</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Drive is zeroed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM 7 "Zero drive" is activated, Drive is zeroed</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.1.7 SWSOPM 8: INCHING SINGLE AXIS

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 8 "Inching single axis"</li> <li>Open robot axis</li> <li>Select one of the robot axis</li> <li>Select SWSOPM 411 or 412</li> <li>Press "Start" and hold the button "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME47: "Operating mode: Inching mode single axis")</li> <li>Operating mode "Inching single axis" is active</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode single axis</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 "Operating mode: Automatic")</li> <li>Operating mode "Inching single axis" is not active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>



Test result		yes/no
Acceptance criteria	• Test 1: Operating mode „Inching single axis“ is active	<input type="text"/>
	• Test 1: Message is displayed on control panel (ME 47)	<input type="text"/>
	• Test 2: Operating mode „Inching single axis“ is not active	<input type="text"/>
	• Test 2: Message is displayed on control panel (ME 40)	<input type="text"/>
Comments	<input type="text"/>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.8 SWSOPM 9: INFEED: REFERENCE RUN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 9 “Infeed: reference run”</li> <li>Press “Start” at the operating panel</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME448 “Robot 1: Reference run”)</li> <li>Reference run robot 1 will performed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 448</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Stop”</li> <li>Press “Reset”</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode panel</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 “Automatic”</li> <li>Press “Reset”</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 “Operating mode: Automatic”)</li> <li>Operating mode “Inching infeed” is not active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 40</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Stop”</li> <li>Press “Reset”</li> </ul>

Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>• Test 1: SWSOPM 9 "Infeed: Reference run" is activated, reference run robot 1 will performed <input type="text"/></li> <li>• Test 1: SWSOPM 9 "Infeed: Reference run" is activated, Message is displayed on control panel (ME 448) <input type="text"/></li> <li>• Test 2: SWSOPM 1 "Automatic" is activated, Operating mode "Inching infeed" is not active <input type="text"/></li> <li>• Test2: SWSOPM 1 "Automatic" is activated, Message is displayed on control panel (ME 40) <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px;"></div>

Results comply	yes/no <input type="text"/>	Date/Initials <input type="text"/>
Results approved	Date/Initials <input type="text"/>	

## 9.1.9 SWSOPM 11: INCHING INFEED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 11 “Inching infeed”</li> <li>Press “Reset”</li> <li>Press “Start” at the operating panel of the infeed system</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME49 “Operating mode: Inching mode infeed”)</li> <li>Operating mode “Inching infeed” is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 49</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Stop”</li> <li>Press “Reset”</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode panel</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 “Automatic”</li> <li>Press “Reset”</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel (ME40 “Operating mode: Automatic”)</li> <li>Operating mode “Inching infeed” is not active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 40</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Stop”</li> <li>Press “Reset”</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 11 "Inching infeed" is activated, Operating mode "Inching panel" is active	<input type="text"/>
	• Test 1: SWSOPM 11 "Inching infeed" is activated, Message is displayed on control panel (ME 49)	<input type="text"/>
	• Test 2: SWSOPM 1 "Automatic" is activated, Operating mode "Inching infeed" is not active	<input type="text"/>
	• Test2: SWSOPM 1 "Automatic" is activated, Message is displayed on control panel (ME 40)	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.10 SWSOPM 60: LINE MODE DOWNSTREAM EQUIPMENT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 60 "Line mode downstream equipment"</li> <li>Press "Start"</li> <li>Create fault at downstream machine</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWSOPM 60 "Line mode downstream equipment"</li> <li>Press "Start"</li> <li>Try to create fault at downstream machine</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine is running in automatic mode</li> <li>Fault message is not displayed in control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 60 "Line mode downstream equipment" is activated: Machine is in line mode. In case of faults fault message will be displayed on control panel and machine stops.	<input type="text"/>
	• Test 2: SWSOPM 60 "Line mode downstream equipment" is deactivated: Machine is not in line mode. In case of faults fault message is not displayed on control panel, machine continues run in automatic mode.	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.11 SWSOPM 62: MACHINE: AUTOMATIC RESTART

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>SWSOPM 60 "Line mode downstream equipment" is activated</li> <li>SWSOPM 62 "Machine: Automatic restart" is activated</li> <li>Line is running at reduced speed</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Create FLT 1416 "Robot 1: Emergency stop rear activated"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine restarts automatically after acknowledgement of FLT 1416</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of FLT 1416</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWSOPM 62 "Machine: Automatic restart" is deactivated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Create FLT 1416 "Robot 1: Emergency stop rear activated"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Acknowledge FLT 1416</li> <li>Press "Reset"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine does not restarts automatically after acknowledgement of FLT 1416</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>



Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 62 "Machine: Automatic restart" is activated, Machine restarts automatically after acknowledgement of the fault message	<input type="text"/>
	• Test 2: SWSOPM 62 "Machine: Automatic restart" is deactivated, Machine does not restart automatically after acknowledgement of the fault message	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.1.12 SWSOPM 63: LINE MODE UPSTREAM EQUIPMENT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode switch (SWSOPM)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 63 “Line mode upstream equipment“</li> <li>Activate SWS 400 “Robot 1”</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine is running in line mode</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWSOPM 63 “Line mode upstream equipment“</li> <li>Deactivate SWS 400 “Robot 1”</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine is running without product infeed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWSOPM 63 "Line mode upstream equipment" is activated, Machine is running with product infeed	<input type="text"/>
	• Test 2: SWSOPM 63 "Line mode upstream equipment" is deactivated, Machine is running without product infeed	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.2 Test protocols - Function tests software switches operation mode drive (SWSOPM\_DRV)

### 9.2.1 SWSOPM\_DRV 1002: INSERTION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Set drive "Insertion" mechanically to position "zero"</li> <li>Close guard door:</li> <li>Press "Reset"</li> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Activate SWSOPM_DRV 1002</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>The position of the drive should not be adjusted, as it has already been adjusted.</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Message "Do you really want to set drive to zero" - Cancel input</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1002 "Insertion" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.2 SWSOPM\_DRV 1003: PREINSERTION HORIZONTAL

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 "Open stop brake"</li> <li>Activate SWSOPM_DRV 1003</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.3 SWSOPM\_DRV 1004: PREINSERTION VERTICAL

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 "Open stop brake"</li> <li>Activate SWSOPM_DRV 1004</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.4 SWSOPM\_DRV 1007: CARTON SETUP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 "Open stop brake"</li> <li>Activate SWSOPM_DRV 1007</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.5 SWSOPM\_DRV 1008: LEAFLET DEVICE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Set drive "Insertion" mechanically to position "zero"</li> <li>Close guard door:</li> <li>Press "Reset"</li> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Activate SWSOPM_DRV 1008</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>The position of the drive should not be adjusted, as it has already been adjusted.</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Message "Do you really want to set drive to zero" - Cancel input</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1008 "Leaflet device" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul> <input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.2.6 SWSOPM\_DRV 1012: ROBOT 1

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 "Open stop brake"</li> <li>Activate SWSOPM_DRV 1012</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.7 SWSOPM\_DRV 1015: MAIN DRIVE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Set drive mechanically to position "zero"</li> <li>Close guard door:</li> <li>Press "Reset"</li> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Activate SWSOPM_DRV 1015 "Main drive"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>The position of the drive should not be adjusted, as it has already been adjusted.</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Message "Do you really want to set drive to zero" - Cancel input</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1015 "Main drive" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul> <input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.8 SWSOPM\_DRV 1016: INSERTION TABLE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Set drive "Insertion" mechanically to position "zero"</li> <li>Close guard door:</li> <li>Press "Reset"</li> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Activate SWSOPM_DRV 1016</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>The position of the drive should not be adjusted, as it has already been adjusted.</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Message "Do you really want to set drive to zero" - Cancel input</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1016 "Insertion table" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.9 SWSOPM\_DRV 1017: CARTON ALIGNMENT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Set drive "Insertion" mechanically to position "zero"</li> <li>Close guard door:</li> <li>Press "Reset"</li> <li>Activate SWSOPM 7 "Zero drive"</li> <li>Activate SWSOPM_DRV 1017</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>The position of the drive should not be adjusted, as it has already been adjusted.</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Message "Do you really want to set drive to zero" - Cancel input</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>SWSOPM_DRV 1017 "Carton alignment" is activated, Message is displayed on control panel "Do you really want to set drive to zero"</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.10 SWSOPM\_DRV 1054: ROBOT 1: DRILL AXIS

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 6 "Open stop brake"</li> <li>Activate SWSOPM_DRV 1054</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.2.11 SWSOPM\_DRV 1055: ROBOT 1

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of operating mode drive (SWSOPM_DRV)</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press button "CAR1-W150-S20P"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Brake can be moved manually</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Brake is released/ open</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.3 Test protocols - Function tests software switches (SWS)

#### 9.3.1 SWS 52: COMPRESSED AIR

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 405 "Robot 1: Call product"</li> <li>Activate SWS 52</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Robot 1 is running</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Robot 1 is running</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 52</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Robot 1 stops running</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: If SWS 52 is activated, the robot 1 is running	<input type="text"/>
	• Test 2: If SWS 52 is deactivated, the robot 1 stops running *	<input type="text"/>
Comments	<div>* It's not possible to deactivate SWS 52 during the run. After the run SWS52 can be deactivated and fault message 5 "Compressed air: Monitoring inlet pressure" is shown. The line can not be started.</div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials <input type="text"/>	



## 9.3.2 SWS 53: PERMANENT READING CODE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 53 "Permanent reading code"</li> <li>Activate button "Webview carton"</li> <li>Place carton in front of reading head of carton</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Code is displayed on control panel within the "Keyence navigator-menu"</li> <li>Code reading is active at standstill</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Code reading is active at standstill</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 53 "Permanent reading code"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Code is not displayed on control panel within the "Keyence navigator-menu"</li> <li>Code reading is not active at standstill</li> </ul>
Comments	<ul style="list-style-type: none"> <li>During continuous code reading a lamp at the code reader carton is blinking</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Deactivate SWS 53 "Permanent reading code"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: Code is displayed on control panel within the "Keyence navigator-menu"	<input type="text"/>
	• Test 1: Code reading is active at standstill	<input type="text"/>
	• Test 2: Code is not displayed on control panel within the "Keyence navigator-menu"	<input type="text"/>
	• Test 2: Code reading is not active at standstill	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.3 SWS 54: VACUUM

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 208 "Continuous call carton"</li> <li>Activate SWS 54 "Vacuum"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Vacuum pump is running</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Vacuum pump is running</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 54 "Vacuum"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Vacuum pump is not running</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: If SWS 54 "Vacuum" is activated, the vacuum pump is running	<input type="text"/>
	• Test 2: If SWS 54 "Vacuum" is deactivated, the vacuum pump is not running	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.4 SWS 56: MACHINE INSIDE LIGHT OFF

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Test procedure</b>		
	<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 56 "Machine inside light off"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Lamps in production room don't shine</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
	<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 56 "Machine inside light off"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Lamps in production room shine</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: SWS 56 "Machine inside light off" is activated: Lamps in production room don't shine</li> <li>Test 2: SWS 56 "Machine inside light off" is deactivated: Lamps in production room shine</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.3.5 SWS 100: INSERT DEFECTIVE PRODUCT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 100 "Insert defective product"</li> <li>Insert leaflet with faulty code in stack</li> <li>Insert some product in the infeed</li> <li>Press "Start"</li> <li>Call some products</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with faulty leaflet is loaded but ejected on discharge belt</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 100 "Insert defective product"</li> <li>Insert leaflet with faulty code in stack</li> <li>Insert some product in the infeed</li> <li>Press "Start"</li> <li>Call some products</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Leaflet is ejected</li> <li>No carton call</li> <li>Product is ejected at insertion</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: SWS 100 is activated: In case of defective product or defective leaflet, carton will be loaded but rejected on discharge belt	<input type="text"/>
	• Test 2: SWS 100 is deactivated: In case of defective product or defective leaflet, product will be rejected without loading	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.6 SWS 106: CONTINUOUS INSERTION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 106 "Continuous insertion"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Insertion pushers are activated</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 106 "Continuous insertion"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Insertion pushers are deactivated</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>



Test result		yes/no
Acceptance criteria	• Test 1: Insertion pushers are activated	<input type="text"/>
	• Test 2: Insertion pushers are deactivated	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.7 SWS 119: CONTINUOUS PREINSERTION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Test procedure</b>		
	<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 119 "Continuous preinsertion"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinsertion moves in continuous operation</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
	<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 119 "Continuous preinsertion"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinsertion does not move</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: Preinsertion moves in continuous operation</li> <li>Test 2: Preinsertion does not move</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.8 SWS 120: PREINSERTION UPPER FRONT POSITION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Testdurchführung</b>		
<b>TEST 1</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Guard doors are closed</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 120 "Preinsertion upper front position"</li> <li>Press "Reset"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinserter moves into an upper front position (assembly position)</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>TEST 2</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Guard doors are closed</li> <li>Preinserter is in upper front position</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinserter moves back to original position</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: Preinserter moves into an upper front position (assembly position)</li> <li>Test 2: Preinserter moves back to original position</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.9 SWS 121: PREINSERTION PLATE 1 DOWN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Test procedure</b>		
	<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 121 "Preinsertion plate 1 down"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Plate 1 at preinsertion lowers</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Plate 1 at preinsertion lowers only if it is located outside folding carton</li> <li>Plate 1 lowers only for one insertion</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
	<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 121 "Preinsertion plate 1 down"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Plate 1 at preinsertion lowers no longer</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Plate 1 at preinsertion lowers only if it is located outside folding carton</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: If SWS 121 is activated plate 1 at preinsertion lowers</li> <li>Test 2: If SWS 121 is deactivated plate 1 at preinsertion raises</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.10 SWS 122: PREINSERTION PLATE 2 DOWN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 122 "Preinsertion plate 2 down"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 2 at preinsertion lowers</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 2 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 122 "Preinsertion plate 2 down"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 2 at preinsertion lowers no longer</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 2 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: If SWS 122 is activated plate 2 at preinsertion lowers <input type="text"/></li> <li>Test 2: If SWS 122 is deactivated plate 2 at preinsertion raises <input type="text"/></li> </ul>
Comments	<div></div>



Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.11 SWS 123: PREINSERTION PLATE 3 DOWN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 123 "Preinsertion plate 3 down"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 3 at preinsertion lowers</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 3 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 123 "Preinsertion plate 3 down"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 3 at preinsertion lowers no longer</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 3 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: If SWS 123 is activated plate 3 at preinsertion lowers <input type="text"/></li> <li>Test 2: If SWS 123 is deactivated plate 3 at preinsertion raises <input type="text"/></li> </ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.12 SWS 124: PREINSERTION PLATE 4 DOWN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 124 "Preinsertion plate 4 down"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 4 at preinsertion lowers</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 4 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Preinsertion is located outside of folding carton</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 124 "Preinsertion plate 4 down"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Plate 4 at preinsertion lowers no longer</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Plate 4 at preinsertion lowers only if it is located outside folding carton</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: If SWS 124 is activated plate 4 at preinsertion lowers <input type="text"/></li> <li>Test 2: If SWS 124 is deactivated plate 4 at preinsertion raises <input type="text"/></li> </ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.13 SWS 127: PREINSERTION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Test procedure</b>		
	<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 127 "Preinsertion"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinsertion is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> </ul>	
	<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 127 "Preinsertion"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Preinsertion is not active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: If SWS 127 "Preinsertion" is activated, preinsertion is active</li> <li>Test 2: If SWS 127 "Preinsertion" is deactivated, preinsertion is not active</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.14 SWS 200: CODE READER CARTON

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Prepare two (2) cartons with wrong / manipulated carton code</li> <li>Product is available</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Insert cartons with wrong / manipulated code into magazine</li> <li>Activate SWS 200 "Code reader carton"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Wrong or non-coded cartons are ejected</li> </ul>
<b>TEST 2</b>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Insert cartons with wrong / manipulated code into magazine</li> <li>Deactivate SWS 200 "Code reader carton"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Wrong or non-coded cartons are not recognized and ejected</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Activate SWS 200 "Code reader carton"</li> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>



Test result		yes/no
Acceptance criteria	• Test 1: SWS200 is activated: wrong or non-coded cartons are ejected	<input type="text"/>
	• Test 2: SWS200 is deactivated: wrong or non-coded cartons are not recognized and ejected	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.15 SWS 203: BLOWING AIR CARTON

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Folded cartons are available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 203 "Blowing air carton"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Folding of the side flap is supported by blowing air</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 203 "Blowing air carton"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Folding of the side flap is not supported by blowing air</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: Folding of the side flap is supported by blowing air	<input type="text"/>
	• Test 2: Folding of the side flap is not supported by blowing air	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.16 SWS 208: CONTINUOUS CALL CARTON

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Cartons are available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 54 "Vacuum" (only with vacuum pump...)</li> <li>Activate SWS 208 "Continuous call carton"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Folding cartons are drawn off and erected without product with each cycle</li> </ul>
Comments	<ul style="list-style-type: none"> <li>No packaged goods required for the function "Continuous call carton"</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> <li>Cartons are available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 208 "Continuous call carton"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Cartons are not drawn off and not erected without product with each cycle</li> </ul>
Comments	<ul style="list-style-type: none"> <li>No packaged goods required for the function "Continuous call carton"</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: Folding cartons are drawn off and erected without product with each cycle	<input type="text"/>
	• Test 2: Folding cartons are not drawn off and not erected without product with each cycle	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.17 SWS 256: CHECK CARTON OPEN COVER FLAP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 256 "Check carton open cover flap" is activated</li> <li>Counter 256 "Carton: Consecutive fault open flap" is set to 3</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one cover flap of the carton before the cartons reach the sensors "CAR1.B86-B01"/ "CAR1.B86-B02"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with open cover flap is detected</li> <li>Carton with open cover flap is carried out as bad</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 256 "Check carton open cover flap"</li> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one cover flap of the carton before the cartons reach the sensors "CAR1.B86-B01"/ "CAR1.B86-B02"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with open cover flap is not detected</li> <li>Carton with open cover flap is carried out as good</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>Test 1: If SWS 256 "Check carton open cover flap" is activated: Carton with open cover flap is detected</li><li>Test 2: If SWS 256 "Check carton open cover flap" is deactivated: Carton with open cover flap is not detected</li></ul>	<div></div> <div></div>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<div></div>	<div></div>
Results approved	Date/Initials	
	<div></div>	

## 9.3.18 SWS 257: CHECK CARTON OPEN SIDE FLAP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 257 "Check carton open side flap" is activated</li> <li>Counter 257 "Carton: Consecutive fault open flap" is set to 3</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one side flap of the carton before the cartons reach the sensors "CAR1.B86-B03"/ "CAR1.B86-B04"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with open side flap is detected</li> <li>Carton with open side flap is carried out as bad</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 257 "Check carton open side flap"</li> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one side flap of the carton before the cartons reach the sensors "CAR1.B86-B03"/ "CAR1.B86-B04"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with open side flap is not detected</li> <li>Carton with open side flap is carried out as good</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>



Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>Test 1: If SWS 257 "Check carton open side flap" is activated: Carton with open side flap is detected <input type="text"/></li><li>Test 2: If SWS 257 "Check carton open side flap" is deactivated: Carton with open side flap is not detected <input type="text"/></li></ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.19 SWS 300: LEAFLET DEVICE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>	
<b>Test procedure</b>		
	<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode with product</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Leaflet device is active</li> <li>Leaflets are called</li> </ul>	
	<b>TEST 2</b>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 300 "Leaflet device"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Leaflet device is not active</li> <li>Leaflets are not called</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Test 1: SWS 300 is activated: Leaflet device is active, leaflets are called</li> <li>Test 2: SWS 300 is deactivated: Leaflet device is not active, leaflets are not called</li> </ul>	<input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.3.20 SWS 302: CODE READER LEAFLET REAR

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Prepare the leaflet with the manipulated code (e.g. use a black pen to draw an additional line in the code or combine two narrow lines to form a thick line).</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Activate SWS 302 "Code reader leaflet rear"</li> <li>Insert leaflets with wrong or manipulated code (rear)</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>All wrong or non-coded leaflets are ejected</li> <li>Counter "Code reader rear" increases by one per defective leaflet</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Consecutive fault after repeated defective leaflets</li> <li>Leaflet ejection in leaflet unit</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Prepare the leaflet with the manipulated code (e.g. use a black pen to draw an additional line in the code or combine two narrow lines to form a thick line).</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Deactivate SWS 302 "Code reader leaflet rear"</li> <li>Insert leaflets with wrong or manipulated code (rear)</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>All wrong or non-coded leaflets are not ejected</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Leaflet ejection in leaflet unit</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result		yes/no
Acceptance criteria	• Test 1: If SWS 302 "Code reader leaflet rear" is activated, all wrong or non-coded leaflets are ejected	<input type="text"/>
	• Test 1: If SWS 302 "Code reader leaflet rear" is activated, counter "Code reader rear" increases by one per defective leaflet	<input type="text"/>
	• Test 2: If SWS 302 "Code reader leaflet rear" is deactivated, leaflets with wrong or missing code on rear side are not ejected	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.3.21 SWS 303: CHECK LEAFLET PRESENT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Run the machine with product</li> <li>Activate SWS 300 "Leaflet device"</li> <li>Deactivate SWS 303 "Check Leaflet present"</li> <li>Press "Stop"</li> <li>Open guard and remove leaflet out of carton before leaflet sensor "=CAR1.B75-B04"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton without leaflet will not be ejected</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Run the machine with product</li> <li>Activate SWS 300 „Leaflet device"</li> <li>Activate SWS 303 "Check Leaflet present"</li> <li>Press "Stop"</li> <li>Open guard and remove leaflet out of carton before leaflet sensor "=CAR1.B75-B04"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton without leaflet will be ejected</li> <li>Counter 315 "Leaflet: Fault cross check in carton" increases by one per defective leaflet</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>

Test result	yes/no
Acceptance criteria	
<ul style="list-style-type: none"><li>Test 1: SWS 303 "Check Leaflet present" is deactivated: Carton without leaflet will not be ejected</li><li>Test 2: SWS 303 "Check Leaflet present" is activated: Carton without leaflet will be ejected</li></ul>	
Comments	

Results comply	yes/no	Date/Initials
Results approved	Date/Initials	

## 9.3.22 SWS 304: INSERT DEFECTIVE LEAFLET

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 304 "Insert defective leaflet"</li> <li>Insert leaflet with faulty code in stack</li> <li>Insert some product in the infeed</li> <li>Press "Start"</li> <li>Call some products</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Carton with faulty leaflet is loaded but ejected on discharge</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST 2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 304 "Insert defective leaflet"</li> <li>Insert leaflet with faulty code in stack</li> <li>Insert some product in the infeed</li> <li>Press "Start"</li> <li>Call some products</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Leaflet is ejected</li> <li>No carton call</li> <li>Product is ejected at discharge belt</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>• Test 1: SWS 304 is activated: In case of defective leaflet, leaflet will be loaded but rejected on discharge belt <input type="text"/></li><li>• Test 2: SWS 304 is deactivated: In case of defective leaflet, leaflet will be rejected without loading <input type="text"/></li></ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	



## 9.3.23 SWS 307: CONTINUOUS CALL LEAFLET

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Function test of software switch (SWS)</li> </ul>
<b>Test procedure</b>	
<b>TEST 1</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Activate SWS 54 "Vacuum" (only with vacuum pump...)</li> <li>Activate SWS 307 "Continuous call leaflet"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Leaflets are drawn off and folded without product with each cycle</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>
<b>TEST2</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Activate SWS 54 "Vacuum" (only with vacuum pump...)</li> <li>Deactivate SWS 307 "Continuous call leaflet"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Leaflets are not drawn off and folded without product with each cycle</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Stop"</li> <li>Press "Reset"</li> </ul>

Test result	yes/no
Acceptance criteria	<ul style="list-style-type: none"><li>• Test 1: SWS 307 "Continuous call leaflet" is activated, Leaflets are drawn off and folded without product with each cycle <input type="text"/></li><li>• Test 2: SWS 307 "Continuous call leaflet" is deactivated, Leaflets are not drawn off and folded without product with each cycle <input type="text"/></li></ul>
Comments	<div></div>

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.4 Test protocols - Messages (ME)

### 9.4.1 ME 25: BATCH CONTROL: BATCH IS INTERRUPTED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>A released recipe is active</li> <li>A new batch has been created but not started</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Start batch</li> <li>Confirm indicated message</li> <li>Press "Interrupt" on "Batch control"</li> <li>Confirm indicated message</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 27</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press "Interrupt" button and confirm indicated message to activate the batch again</li> </ul>
<b>Test result</b>	<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.2 ME 26: BATCH CONTROL: BATCH IS NOT ACTIVE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Release a recipe</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.3 ME 27: BATCH CONTROL: BATCH IS ACTIVE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>A released recipe is active</li> <li>A new batch has been created</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Start batch</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>Test can be done together with test of ME 25 and ME 26</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press “finish” on “Batch control” and confirm indicated message</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	<input type="text"/>
<b>Comments</b>	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.4 ME 40: OPERATING MODE: AUTOMATIC

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 1 "Automatic"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 1</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.5 ME 41: OPERATING MODE: SETUP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 2 "Setup"</li> <li>Press "Reset"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 2</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.6 ME 42: OPERATING MODE: INCHING MODE PANEL

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 3 "Inching panel"</li> <li>Close all guard doors</li> <li>Press "Reset"</li> <li>Press "Start" and hold the button "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel as long as the button "Start" is pressed"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 3</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.4.7 ME 43: OPERATING MODE: INCHING MODE CABLE FRONT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Plug in "inching cable front"</li> <li>Activate SWSOPM 4 "Inching cable"</li> <li>Close all guard doors</li> <li>Press "Reset"</li> <li>Press button on "inching cable front"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel as long as the button on inching cable is pressed"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 4</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.8 ME 47: OPERATING MODE: INCHING MODE SINGLE AXES

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in inching mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 8 "Inching single axis"</li> <li>Activate SWSOPM_DRV 1054 "Robot 1: Drill axis"</li> <li>Press "Start" and hold the button</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.9 ME 49: OPERATING MODE: INCHING MODE INFEED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 11 "Inching infeed"</li> <li>Press "Start" at the operating panel of the infeed system</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.10 ME 160: MACHINE: OPERATIONAL

<b>Test objective</b>	<ul style="list-style-type: none"><li>• Test whether correct message is displayed on control panel</li></ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"><li>• Machine is ready in automatic mode</li><li>• No fault messages pending</li></ul>
Required operations	<ul style="list-style-type: none"><li>• Press “Reset” in case of pending fault messages</li></ul>
Consequence	<ul style="list-style-type: none"><li>• Message is displayed on control panel</li></ul>
Comments	<ul style="list-style-type: none"><li>• None</li></ul>
Acknowledgement	<ul style="list-style-type: none"><li>• None</li></ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"><li>• Message is displayed on control panel</li></ul> <input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.11 ME 448: ROBOT 1: REFERENCE RUN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Robot arm is not installed</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 9 "Infeed: Reference run"</li> <li>Confirm indicated message</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> <li>Reference run of robot is performed</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.12 ME 2003: CODE READER LEAFLET: READ ERROR

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Activate SWS 302 "Code reader leaflet rear"</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Prepare and generate a wrong code</li> <li>Press Start</li> <li>Press Stop when the wrong code has been read from the code reader</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.4.13 ME 2004: CODE READER CARTON: READ ERROR

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Activate SWS 200 "Code reader carton"</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Prepare and generate a wrong code</li> <li>Press Start</li> <li>Press stop when the wrong code has been read from the code reader</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<input type="text"/>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.5 Test protocols - Warnings (WA)

### 9.5.1 WA 5: MACHINE: COMPRESSED AIR SWITCHED OFF

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct warning message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Deactivate SWS 52 "Compressed air"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Activate SWS 52 "Compressed air"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.5.2 WA 29: OPERATOR: NO USER LOGGED IN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct warning message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>User is logged in</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Log out user</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>Window "Please log in first!" is displayed on control panel</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Log in user</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as warning is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.5.3 WA 45: CONTROL CABINET: UPS NOT READY

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off the machine at the main switch</li> <li>Wait until all LED lamps on the display of the USV are off completely</li> <li>Remove USV (XUSB in)</li> <li>Switch on the machine</li> <li>Log in a user</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Together with the warning message FLT 45 "CONTROLCABINET: UPS NOT READY" is displayed on control panel</li> <li>In order to acknowledge the fault message follow: menu "system configuration" &gt; submenu "diagnostic" &gt; Button "device diagnostic" &gt; submenu "diagnostic USV" &gt; Press button "Monitoring USV off"</li> <li>The simulation of the warning WA "45" can be done together with fault message FLT "45"</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close the HMI and shut down the IPC</li> <li>Switch off the main switch</li> <li>Reconnect the USV</li> <li>Switch on the main switch</li> <li>Log in a user</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul> <input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.5.4 WA 220: CARTON: PREWARNING LOW STOCK - IB32\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct warning message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Remove folding cartons from the magazine until sensor “=CAR1.B32-B01“ is uncovered</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Fill cartons into magazine</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.5.5 WA 800: LEAFLET INSERTER: MINIMAL SUPPLY

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct warning message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Remove leaflets from Rontech infeed belt before sensor "93B5"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Fill up leaflets into Rontech infeed belt before sensor "93B5"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Warning is displayed on control panel</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6 Test protocols - Faults (FLT)

### 9.6.1 FLT 3: OPERATOR: NORMAL STOP ACTIVATED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "Stop"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.2 FLT 4: OPERATOR: INCORRECT OPERATING MODE SELECTED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWSOPM 4 "Inching cable"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Activate SWSOPM 2 "Setup"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.3 FLT 5: COMPRESSED AIR: MONITORING INLET PRESSURE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Close the compressed air supply on cartoning machine</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Open the compressed air supply on cartoning machine</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.4 FLT 7: COMPRESSED AIR: MONITORING SAFE SHUTDOWN

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect “=CAR1.G95-Q01:S1“</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect “=CAR1.G95-Q01:S1“</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.5 FLT 11: MOTION DRIVES: OVERLOAD POWER SUPPLY - IK00\_Q10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect input: “=CAR1.K00-KI04:10“</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect input: “=CAR1.K00-KI04:10“</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.6 FLT 17: OPERATOR: OPERATING MODE CHANGE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in setup mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Change over to automatic mode</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.7 FLT 22: VACUUM: OVERLOAD PUMP

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off protective motor switch: “=CAR1.G05-Q10“</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on protective motor switch: “=CAR1.G05-Q10“</li> <li>Press “Reset”</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.8 FLT 23: VACUUM: MONITORING NEGATIVE PRESSURE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Activate SWS 54 "Machine vacuum"</li> <li>Disconnect sensor "=CAR1.G05-B80"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "=CAR1.G05-B80"</li> <li>Press "Reset"</li> </ul>	

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.9 FLT 34: MACHINE: REPAIR SWITCH DRIVES SWITCHED OFF - IW00\_Q02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off the repair switch</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on the repair switch</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.10 FLT 42: CONTROL CABINET S1: OVERTEMPERATURE - IW00\_B13

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Adjust value of temperature controller “=CAR1.W00-B13” less than the actual temperature in the control cabinet</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Set temperature controller “=CAR1.W00-B13” back to previous value of 45 °C</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.11 FLT 43: CONTROL CABINET: VOLTAGE MONITORING

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Switch off fuse "CAR1.W00-F2051"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on fuse "CAR1.W00-F2051"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.12 FLT 45: CONTROL CABINET: UPS NOT READY

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect USB-cable between USV and IPC</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>If required restart the machine to acknowledge the machine</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect USB-cable between USV and IPC</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.13 FLT 78: EMERGENCY STOP: SAFETY CIRCUIT NOT ACTIVE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button at the HMI</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button at the HMI</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.14 FLT 79: EMERGENCY STOP ACTIVATED: LINE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Line is running at reduced speed</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button of downstream/ upstream machine</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button of downstream/ upstream machine</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Line stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.15 FLT 81: EMERGENCY STOP ACTIVATED: OPERATING PANEL - IF91\_S90

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is running with reduced speed</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.16 FLT 86: GUARD OPEN: BOTTOM [6]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Open guard door: bottom</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: bottom</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.17 FLT 87: GUARD OPEN: CARTON BELT [4]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: front carton belt</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: front carton belt</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.18 FLT 88: GUARD OPEN: INSERTION REAR [13]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: insertion rear</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: insertion rear</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.19 FLT 110: PRODUCT SENSING: CONSECUTIVE FAULT EXCEED HEIGHT - IB10\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Counter 131 "Product: Consecutive fault sensing exceed height" is set to 3</li> <li>Product scanner is switched on</li> <li>Product is available</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Produce 3 products with exceed height in front of the sensor "=CAR1.B10-B02"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops after detecting a products with exceed height three times</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/> <input type="text"/> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.20 FLT 111: PRODUCT SENSING: CONSECUTIVE FAULT - IB10\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Counter 112 "Product: Consecutive fault sensing" is set to 3</li> <li>Product scanner is switched on</li> <li>Product is available</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "Start" and run the machine until enough product is in front of the sensor "CAR1.B10-B01"</li> <li>Press "Stop"</li> <li>Remove 3x product from product chain successively in front of sensor "CAR1.B10-B01"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stop after detecting a missing product three times</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Machine stops <input type="text"/></li> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
<b>Comments</b>	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.21 FLT 112: PRODUCT SENSING: SENSOR MONITORING - IB10-B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "=CAR1.B10-B01" permanently</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "=CAR1.B10-B01"</li> <li>Press "Reset"</li> </ul>	

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.22 FLT 113: PRODUCT SENSING: SENSOR MONITORING EXCEED HEIGHT - IB10\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product scanner is switched on</li> <li>Product is available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: sensor “=CAR1.B10-B02”</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Reset”</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.23 FLT 120: INSERTION: SAFETY SENSOR - IB36\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start" and stop the machine after placing the product and inserts into the carton</li> <li>Simulate incomplete insertion (e.g. pull leaflet out of the carton which has just been inserted or insert a piece of paper so that it protrudes out of the carton about 2 cm)</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Remove carton</li> <li>Press "Reset"</li> </ul>

Test result	yes/no
Acceptance criteria	
<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.24 FLT 122: PRODUCT CHAIN: OVERFILL COLLECTING BOX - IB80\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: at insertion</li> <li>Cover sensor "=CAR1.B80-B02"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.25 FLT 126: INSERTION: OVERLOAD PREINSERTION

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: at insertion</li> <li>Simulate overload at sensor “=CAR1.W40-B02” (or disconnect input “=K00-KI12:1”)</li> <li>Press “Start”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press “Reset”</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.26 FLT 129: INSERTION: MONITORING SENSOR SAFETY SENSOR - IB36\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor “=CAR1.B36-B01”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.B36-B01”</li> <li>Press “Reset”</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.27 FLT 173: INSERTION: SLIDE IN 1 NOT IN POSITION - IW40\_B10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>								
<b>Test procedure</b>									
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>								
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.W40-B10"</li> <li>Press "Start"</li> </ul>								
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>								
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>								
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.W40-B10"</li> <li>Press "Reset"</li> </ul>								
<b>Test result</b>									
Acceptance criteria	<table border="1"> <thead> <tr> <th></th><th>yes/no</th></tr> </thead> <tbody> <tr> <td>Machine stops</td><td><input type="text"/></td></tr> <tr> <td>Fault message is displayed on control panel</td><td><input type="text"/></td></tr> <tr> <td>Machine cannot be started as long as fault is active</td><td><input type="text"/></td></tr> </tbody> </table>		yes/no	Machine stops	<input type="text"/>	Fault message is displayed on control panel	<input type="text"/>	Machine cannot be started as long as fault is active	<input type="text"/>
	yes/no								
Machine stops	<input type="text"/>								
Fault message is displayed on control panel	<input type="text"/>								
Machine cannot be started as long as fault is active	<input type="text"/>								
Comments	<div></div>								

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.28 FLT 174: INSERTION: SLIDE IN 2 NOT IN POSITION - IW40\_B11

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.W40-B11"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.W40-B11"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.29 FLT 175: INSERTION: SLIDE IN 3 NOT IN POSITION - IW40\_B12

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.W40-B12"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.W40-B12"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.30 FLT 176: INSERTION: SLIDE IN 4 NOT IN POSITION - IW40\_B13

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.W40-B13"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.W40-B13"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.31 FLT 200: MACHINE: JAM AT DISCHARGE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.X85-B01"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "CAR1.X85-B01"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.32 FLT 201: DOWNSTREAM: STOP FROM MACHINE 1

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWSOPM 60 "Line mode Downstream equipment" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start" on cartoning machine</li> <li>Press Stop on machine 1</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Cartoning machine stop from machine 1</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset" on cartoning machine</li> <li>Press "Reset" on machine 1</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.33 FLT 210: GUARD OPEN: CARTON MAGAZINE [5]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: carton magazine</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can only be performed at standstill, because guard is locked while running</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: carton magazine</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.34 FLT 211: EMERGENCY STOP ACTIVATED: DISCHARGE

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button at discharge</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button at discharge</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.35 FLT 212: GUARD OPEN: DISCHARGE TOP [1]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: discharge top</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: discharge top</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.36 FLT 213: CARTON: OVERLOAD SIDE FLAP FOLDER - IB37\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: of cartoner</li> <li>Simulate overload at sensor "CAR1.B37-B01" (move side flap folder back)</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Place side flap folder back to current position</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.37 FLT 220: CARTON: STOCK AT THE END - IA30\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Empty carton magazine nearly to sensor "CAR1.A30-B02"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Fill up carton magazine</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.38 FLT 221: MACHINE: COVER RAIL OPEN - IA30-B03

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Guard doors are closed</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Turn on “=CAR1.A30-S20” and lift up the cover rail</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Lower cover rail</li> <li>Turn off “=CAR1.A30-S20”</li> <li>Press „Reset“</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.39 FLT 222: CARTON: CONSECUTIVE FAULT CROSSCHECK - IA30\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>Counter 210 "Carton: consecutive fault cross check" is set to 3</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Remove <math>\geq 3x</math> cartons from carton magazine in front of sensor "CAR1.A30-B01" one after the other</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>After 3 undetected cartons machine stops</li> <li>Fault message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>After 3 undetected cartons machine stops <input type="text"/></li> <li>Fault message is displayed on control panel <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.40 FLT 223: CARTON: PICKUP CHECK - IA30\_B04

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.A30-B04"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "CAR1.A30-B04"</li> <li>Press "Reset"</li> </ul>	

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.41 FLT 224: CARTON BELT: OVERLOAD

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off protective motor switch: “=CAR1.W31-Q10”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on protective motor switch: “=CAR1.W31-Q10”</li> <li>Press “Reset”</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.42 FLT 225: CARTON: CONSECUTIVE FAULT CODE READER - IB75\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode with product</li> <li>SWS 200 "Code reader carton" is activated</li> <li>Counter 240 "Carton: fault code reading" is set to 3</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Place 3 cartons without or with wrong code in the carton magazine</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stop after detecting a defective bar code three times</li> <li>Fault message is displayed on control panel</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops <input type="text"/></li> <li>Fault message is displayed on control panel <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.43 FLT 226: CARTON:\FAULT CODE READER - IB75\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode with product</li> <li>SWS 200 "Code reader carton" is activated</li> <li>Counter 240 "Carton: fault code reading" is set to 3</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Disconnect input "=CAR1.K00-KI04:12"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Reconnect input "=CAR1.K00-KI04:12"</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul> <input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.44 FLT 227: CARTON: SENSOR MONITORING CROSSCHECK - IA30\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "=CAR1-A30-B01"</li> <li>Press "Start" and run the machine more than 1 cycle</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "=CAR1-A30-B01"</li> <li>Press "Reset"</li> </ul>	

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



### 9.6.45 FLT 250: CARTON EJECTION 1: OVERFILL COLLECTING CONTAINER - IQ82\_B03

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "=CAR1.Q82-B03"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "=CAR1.Q82-B03"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.46 FLT 251: CARTON EJECTION 1: CROSS CHECK - IQ82\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.Q82-B01"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "CAR1.Q82-B01"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.47 FLT 254: CARTON REJECT 1: SENSOR MONITORING CROSS CHECK - IQ82\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct warning message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: discharge top</li> <li>Disconnect sensor “=CAR1.Q82-B01”</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.Q82-B01”</li> <li>Close guard door: discharge top</li> <li>Press “Reset”</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.48 FLT 270: CARTON: OPEN FLAP: SENSOR MONITORING COVER FLAP FRONT - IB86\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 256 "Check carton open cover flap" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.B86-B01"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.B86-B01"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.49 FLT 271: CARTON: OPEN FLAP: SENSOR MONITORING COVER FLAP REAR - IB86\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 256 "Check carton open cover flap" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.B86-B02"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.B86-B02"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.50 FLT 272: CARTON: OPEN FLAP: SENSOR MONITORING SIDE FLAP FRONT - IB86\_B03

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 257 "Check carton open side flap" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.B86-B03"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.B86-B03"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.51 FLT 273: CARTON: OPEN FLAP: SENSOR MONITORING SIDE FLAP REAR - IB86\_B04

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 257 "Check carton open side flap" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.B86-B04"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.B86-B04"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.52 FLT 289: CARTON: OPEN FLAP: CONSECUTIVE FAULT COVER FLAP -IB86\_B01 / IB86\_B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 256 "Check carton open cover flap" is activated</li> <li>Counter 256 "Carton: Consecutive fault open flap" is set to 1</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one cover flap of the carton before the carton reach the sensors "CAR1.B86-B01"/ "CAR1.B86-B02"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stop after detecting a open cover flap</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Remove open carton</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stop after detecting a open cover flap</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	



Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 9.6.53 FLT 294: CARTON: OPEN FLAP: CONSECUTIVE FAULT SIDE FLAP -IB86\_B03 / IB86\_B04

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 257 "Check carton open side flap" is activated</li> <li>Counter 257 "Carton: Consecutive fault open flap" is set to 3</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "Stop" until some cartons has been closed</li> <li>Put out one side flap of the carton before the cartons reach the sensors "CAR1.B86-B03"/ "CAR1.B86-B04"</li> <li>Press "Start" and stop the machine before the next carton is checked</li> <li>Remove open carton</li> <li>Press "Reset"</li> <li>Put out one side flap of the carton before the cartons reach the sensors "CAR1.B86-B03"/ "CAR1.B86-B04"</li> <li>Press "Start" and stop the machine before the next carton is checked</li> <li>Remove open carton</li> <li>Press "Reset"</li> <li>Put out one side flap of the carton before the cartons reach the sensors "CAR1.B86-B03"/ "CAR1.B86-B04"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stop after detecting a open side flap three times</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Machine stop after detecting a open side flap three times	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 9.6.54 FLT 301: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN PRODUCT CHAIN - IX161\_B10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• SWS 300 "Leaflet device" is activated</li> <li>• Product is available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Activate SWS 300 "Leaflet device"</li> <li>• Deactivate SWS 100 "Insert defective product" if necessary</li> <li>• Press "Start" with product until leaflet gripper chain is filled up</li> <li>• Press "Stop"</li> <li>• Remove leaflet before sensor "=CAR1.X161-B10" and after sensor "=CAR1.X161-B11"</li> <li>• Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• Machine stops</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Machine stops	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.6.55 FLT 302: LEAFLET: CROSS CHECK EJECTION - IX161\_B12

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Cover sensor: "=CAR1.X161-B12"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Uncover sensor: "=CAR1.X161-B12"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.56 FLT 304: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN UNIT - X161\_B11

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• SWS 300 "Leaflet device" is activated</li> <li>• Counter 310 "Leaflet: Fault cross check in leaflet device" is set to 1</li> <li>• Product is available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Press "Start" and run the machine until enough product is in front of the sensor "=CAR1.X161-B11"</li> <li>• Press "Stop"</li> <li>• Open guard door:</li> <li>• Remove 1x leaflet before sensor "=CAR1.X161-B11"</li> <li>• Close guard door:</li> <li>• Press "Reset"</li> <li>• Press "Start" with product</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• After 1 missing leaflet machine stops</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• Cartons without leaflet will be ejected</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Press "Reset"</li> <li>• Set counter 310 "Leaflet: Fault cross check in leaflet device" to 3</li> </ul>

Test result		yes/no
Acceptance criteria	• After 1 missing leaflet machine stops	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	



### 9.6.57 FLT 321: LEAFLET: CONSECUTIVE FAULT CODE READER REAR - IB75\_B05

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• Counter 331 "Leaflet: consecutive fault code reader rear" is set to 3</li> <li>• leaflets with no or wrong code are prepared</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Activate SWS 300 "Leaflet device"</li> <li>• Deactivate SWS 100 "Insert defective product"</li> <li>• Activate SWS 302 "Leaflet: code reader rear"</li> <li>• Insert 3 leaflets with no or wrong code in leaflet stack successively</li> <li>• Press "Start" with product</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• Leaflets with wrong / missing code will be ejected</li> <li>• After 3 defective leaflets machine stops</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• To manipulate the code of the leaflet use a black felt-tip pen (e.g. Edding)</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• Leaflets with wrong / missing code will be ejected	<input type="text"/>
	• After 3 defective leaflets machine stops	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<input type="text"/>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 9.6.58 FLT 322: LEAFLET: CONSECUTIVE FAULT CROSS CHECK IN CARTON - IB75\_B04

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• SWS 300 "Leaflet device" is activated</li> <li>• Counter 303 "Leaflet: Consecutive fault cross check in carton" is set to 3</li> <li>• Product is available</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Press "Start" and run the machine until enough product is in front of the sensor "=CAR1.B75-B04"</li> <li>• Press "Stop"</li> <li>• Open guard door:</li> <li>• Remove 3x leaflet before sensor "=CAR1.B75-B04"</li> <li>• Close guard door:</li> <li>• Press "Reset"</li> <li>• Press "Start" with product</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• After 3 missing leaflets machine stops</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• Cartons without leaflets will be ejected</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• After 3 missing leaflets machine stops	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

## 9.6.59 FLT 324: LEAFLET: FAULT CODE READER REAR - IB75\_B05

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Prepare one leaflet with no or wrong code</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Activate SWS 300 "Leaflet device"</li> <li>Deactivate SWS 100 "Insert defective product"</li> <li>Activate SWS 302 "Leaflet: code reader rear"</li> <li>Disconnect input: "=CAR1.X161-KI00:11"</li> <li>Press "Start" with product</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>To manipulate the code of the leaflet use a black felt-tip pen (e.g. Edding)</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Reconnect input: "=CAR1.X161-KI00:11"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Machine stops <input type="text"/></li> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
	<b>Comments</b>
	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.60 FLT 325: LEAFLET: SENSOR MONITORING CROSS CHECK IN CARTON - IB75-B04

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.B75-B04"</li> <li>Press "Start"</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "CAR1.B75-B04"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.61 FLT 326: LEAFLET: SENSOR MONITORING CROSS CHECK IN PRODUCT CHAIN - IX161\_B10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "=-CAR1.X161-B10"</li> <li>Press "Reset"</li> <li>Press start</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "=-CAR1.X161-B10"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.62 FLT 412: ROBOT 1: EMERGENCY STOP FRONT ACTIVATED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>SWSOPM 60 "Line mode downstream equipment" is activated</li> <li>SWSOPM 62 "Machine: Automatic restart" is activated</li> <li>SWS 400 "Robot 1" is activated</li> <li>Line is running at reduced speed</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button on Robot 1</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>
Comments	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 62 "Machine: Automatic restart"</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button on Robot 1</li> <li>Press "Reset"</li> </ul>

<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Line stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.63 FLT 421: ROBOT 1: GUARD OPEN: FRONT LEFT [12]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: front left</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: front left</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.64 FLT 422: ROBOT 1: GUARD OPEN: FRONT RIGHT [11]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: front right</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: front right</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.65 FLT 433: ROBOT 1: INLET: OVERLOAD - W154\_B35

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "CAR1.W154-B35"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "CAR1.W154-B35"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.66 FLT 441: ROBOT 1: BELT 1: FAULT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Switch off protective motor switch: "=CAR1-W154-Q50"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Switch on protective motor switch: "=CAR1-W154-Q50"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.67 FLT 457: ROBOT 1: MONITORING COMPRESSED AIR

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Close the compressed air supply on robot 1</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Open the compressed air supply on robot 1</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.68 FLT 800: LEAFLET INSERTER: MINIMAL STOCK

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Set counter 800 "Leaflet inserter: Cycles to minimum filling" to 10</li> <li>• Remove all leaflets from Rontech infeed belt before sensor "93B5"</li> <li>• Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• Machine stops after 10 leaflets has been requested</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Refill leaflets into Rontech infeed belt before sensor "93B5"</li> <li>• Press "Reset"</li> </ul>

Test result	yes/no
Acceptance criteria	
<ul style="list-style-type: none"> <li>• Machine stops after 10 leaflets has been requested</li> </ul>	<input type="text"/>
<ul style="list-style-type: none"> <li>• Fault message is displayed on control panel</li> </ul>	<input type="text"/>
<ul style="list-style-type: none"> <li>• Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.69 FLT 807: LEAFLET INSERTER: NOT IN OPERATIONAL

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Disconnect input: "=CAR1.X161-KI00:1"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Reconnect input "=CAR1.X161-KI00:1"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.70 FLT 808: LEAFLET INSERTER: GUARD OPEN: REAR [16]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: rear</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: rear</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.71 FLT 822: LEAFLET INSERTER: EMERGENCY STOP ACTIVATED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Press "Start"</li> <li>Press "EMERGENCY STOP" strike button at Rontech revolver</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button at Rontech revolver</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.72 FLT 843: LEAFLET INSERTER: CONTROL CABINET: VOLTAGE MONITORING

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off fuse "=CAR1.X161-F3090"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on fuse "=CAR1.X161-F3090"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.73 FLT 1212: GUARD OPEN: COLLECTING CONTAINER 1 [2]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Guard ejector (=CAR1.Q82-B802)</li> <li>Close guard door: Collecting box (=CAR1.Q82-B801)</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Guard ejector (=CAR1.Q82-B802)</li> <li>Open guard door: Collecting box (=CAR1.Q82-B801)</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.74 FLT 1213: CARTON EJECTION 1: OVERFILL GUARD COLLECTING CONTAINER

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Counter 214 for "Carton ejection 1: Overfill guard collecting container" is set to 1</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Create a defective item (e. g. incorrect code), run the machine until the defective item is rejected</li> <li>Close guard door: Guard ejector (=CAR1.Q82-B802)</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Open guard door: Guard ejector (=CAR1.Q82-B802)</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.75 FLT 1416: ROBOT 1: EMERGENCY STOP REAR ACTIVATED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWSOPM 60 "Line mode downstream equipment" is activated</li> <li>SWSOPM 62 "Machine: Automatic restart" is activated</li> <li>SWS 400 "Robot 1" is activated</li> <li>Line is running at reduced speed</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "EMERGENCY STOP" strike button on Robot 1 rear</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>Test can be done together with test of SWSOPM 62 "Machine: Automatic restart"</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Unlock "EMERGENCY STOP" strike button on Robot 1 rear</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Line stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/> <input type="text"/> <input type="text"/>
<b>Comments</b>	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.76 FLT 1417: ROBOT 1: GUARD OPEN: REAR LEFT [18]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Open guard door: Rear left</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Close guard door: Rear left</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<input type="text"/>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.77 FLT 1418: ROBOT 1: GUARD OPEN: REAR RIGHT [17]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Rear right</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Rear right</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.78 FLT 1419: ROBOT 1: RANGE LIMIT REACHED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Open guard door:</li> <li>Press safety switch "=CAR1.W150-S20" (Open stop break robot) to position "1"</li> <li>Move the robot arm outside the operational limit by hand manually</li> <li>Press safety switch "=CAR1.W150-S20" (Open stop break robot) to position "0"</li> <li>Close the guard doors from robot</li> <li>Press "Reset"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Move the robot arm to the initial position by hand manually</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.79 FLT 1433: ROBOT 1: VACUUM MONITOR: SUCTION CUP 1

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect ejector "=CAR1.W150-Q30"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect ejector "=CAR1.W150-Q30"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.80 FLT 1434: ROBOT 1: VACUUM MONITOR: SUCTION CUP 2

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Disconnect ejector "=CAR1.W150-Q31"</li> <li>Press "Start"</li> </ul>
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Reconnect ejector "=CAR1.W150-Q31"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.81 FLT 1435: ROBOT 1: VACUUM MONITOR: SUCTION CUP 3

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 400 "Robot 1" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect ejector "=CAR1.W150-Q32"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect ejector "=CAR1.W150-Q32"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.82 FLT 1443: ROBOT 1: CONTROL CABINET: VOLTAGE MONITORING

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Switch off fuse "CAR1.W150-F7181"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Switch on fuse "CAR1.W150-F7181"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.83 FLT 2001: GUARD OPEN: BACK SIDE BELOW LOADING [14]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Back side below loading</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Back side below loading</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.84 FLT 2002: GUARD OPEN: BACKSIDE VACUUM PUMP [15]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Back side vacuum pump</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Back side vacuum pump</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.85 FLT 2003: NUMBER OF REQUESTED TARA PARTS REACHED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Product is available</li> <li>SWS 300 "Leaflet device" is activated</li> <li>SWS 2007 "Request Tara parts" is activated</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Press "Start"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Machine stops after 13 good cartons passed the machine</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Machine stops after 13 good cartons passed the machine</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.86 FLT 2004: GUARD OPEN: PRODUCT EJECTION COLLECTING BOX [3]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Product ejection collecting box</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Product ejection collecting box</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.87 FLT 2010: LEAFLET INSERTER: GUARD OPEN: BOTTOM LEFT [10]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Open guard door: Bottom left on leaflet unit</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Close guard door: Bottom left on leaflet unit</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.88 FLT 2011: LEAFLET INSERTER: GUARD OPEN: BOTTOM RIGHT [9]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door:, bottom right on leaflet unit</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: bottom right on leaflet unit</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.89 FLT 2012: LEAFLET INSERTER: GUARD OPEN: TOP LEFT [8]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Top left on leaflet unit</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Top left on leaflet unit</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.90 FLT 2013: LEAFLET INSERTER: GUARD OPEN: TOP RIGHT [7]

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet device" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Open guard door: Top right on leaflet unit</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Close guard door: Top right on leaflet unit</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.91 FLT 2017: LEAFLET: MONITORING SENSOR: LEAFLET NOT EJECTED - X161\_B12

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor "=CAR1.X161-B12"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: "=CAR1.X161-B12"</li> <li>Press "Reset"</li> </ul>
<b>Test result</b>	<b>yes/no</b>
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel <input type="text"/></li> <li>Machine cannot be started as long as fault is active <input type="text"/></li> </ul>
Comments	<div></div>

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.92 FLT 2022: LEAFLET: MONITORING PROPER SIGNAL CODE READING LEAFLET REAR - IB75\_B05

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>SWS 300 "Leaflet unit" is activated</li> <li>SWS 302 "Code reader leaflet rear" is activated</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Put 24 V to input "=CAR1.X161-KI00:10"</li> <li>Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Remove the 24 V from input "=CAR1.X161-KI00:10"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine stops	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.93 FLT 2046: INFEED 2: PUCK NOT EMPTY AT OUTFEED BELT

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Infeed 2 is active</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.W154-B38"</li> <li>Press "Start"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Uncover sensor "CAR1.W154-B38"</li> <li>Press "Reset"</li> </ul>	
<b>Test result</b>		<b>yes/no</b>
<b>Acceptance criteria</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
<b>Comments</b>	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.94 FLT 2047: CODE READER CARTON: NO CODE LOADED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Activate SWS 200 "Code reader carton"</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Activate the menu for code reader -&gt; sub menu "Vision"</li> <li>Delete the defined code for the carton in submenu „Vision“</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Enter the required code</li> <li>Press "validation"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 9.6.95 FLT 2048: CODE READER LEAFLET: NO CODE LOADED

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
<b>Test prerequisites</b>	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Activate SWS 302 "Code reader leaflet rear"</li> </ul>	
<b>Required operations</b>	<ul style="list-style-type: none"> <li>Activate the menu for code reader -&gt; sub menu "Vision"</li> <li>Delete the defined code for the leaflet rear in submenu "Vision"</li> </ul>	
<b>Consequence</b>	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
<b>Comments</b>	<ul style="list-style-type: none"> <li>None</li> </ul>	
<b>Acknowledgement</b>	<ul style="list-style-type: none"> <li>Enter the required code</li> <li>Press validation</li> <li>Press "Reset"</li> </ul>	

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.96 FLT 2057: CARTON REJECT 1: CROSS CHECK CARTON REJECT IQ82\_B10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>• Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>• Machine is ready in automatic mode</li> <li>• Product is available</li> <li>• SWS 100 "Product: Insert defective product" is deactivated</li> <li>• SWS 200 "Code reader carton" is activated</li> <li>• Counter 240 for "Carton: Consecutive fault code reader" is set to 3</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>• Put one carton with manipulated ID Code into the carton stack</li> <li>• Press "Start" wait until the carton is scanned by sensor "CAR1.B75-B01"</li> <li>• Stop the machine when the out-feed belt conveys the carton out of the machine</li> <li>• Remove the carton out of the out-feed belt</li> <li>• Press "Reset"</li> <li>• Press "Start"</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>• If the sensor "CAR1.Q82-B10 detects that the faulty carton is missing, the machine stops</li> <li>• Fault message is displayed on control panel</li> <li>• Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>• None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>• Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	• If the sensor "CAR1.Q82-B10 detects that the faulty carton is missing, the machine stops	<input type="text"/>
	• Fault message is displayed on control panel	<input type="text"/>
	• Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

Results comply	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
Results approved	Date/Initials	
	<input type="text"/>	

### 9.6.97 FLT 2058: CARTON REJECT 1: SENSOR MONITORING CROSS CHECKCARTON REJECTED - IQ82\_B10

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Cover sensor: "CAR1.Q82-B10"</li> <li>Press "Reset"</li> <li>Press start</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine starts and stop after some cycles</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Uncover sensor: "CAR1.Q82-B10"</li> <li>Press "Reset"</li> </ul>

Test result		yes/no
Acceptance criteria	Machine starts and stop after some cycles	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.98 FLT 2061: INSERTION: MONITORING SENSOR: OVERLOAD PREINSERTION -W40-B02

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor “=CAR1.W40-B02”</li> <li>Press “Reset”</li> <li>Press “Start”</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.W40-B02”</li> <li>Press “Reset”</li> </ul>	
<b>Test result</b>	<b>yes/no</b>	
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.99 FLT 2062: ROBOT 1: MONITORING SENSOR: PRODUCT SENSING - W154\_B37

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>	
<b>Test procedure</b>		
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>	
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor “=CAR1.W154-B37“</li> <li>Press “Reset”</li> <li>Press “Start“</li> </ul>	
Consequence	<ul style="list-style-type: none"> <li>Machine stops</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>	
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>	
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.W154-B37“</li> <li>Press “Reset”</li> </ul>	

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Machine stops</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div style="border: 1px solid black; height: 100px; width: 100%;"></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

### 9.6.100 FLT 2063: ROBOT 1: MONITORING SENSOR: PUCK NOT EMPTY AT OUT-FEED BELT - W154\_B38

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> <li>Activate robot 1</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor “=CAR1.W154-B38”</li> <li>Press “Reset”</li> <li>Press start</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Machine starts and stop after some cycles</li> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.W154-B38”</li> <li>Press “Reset”</li> </ul>

Test result		yes/no
Acceptance criteria	Machine starts and stop after some cycles	<input type="text"/>
	Fault message is displayed on control panel	<input type="text"/>
	Machine cannot be started as long as fault is active	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	

## 9.6.101 FLT 2064: MONITORING SENSOR: JAM AT DISCHARGE - X85\_B01

<b>Test objective</b>	<ul style="list-style-type: none"> <li>Test whether correct fault message is displayed on control panel</li> </ul>
<b>Test procedure</b>	
Test prerequisites	<ul style="list-style-type: none"> <li>Machine is ready in automatic mode</li> </ul>
Required operations	<ul style="list-style-type: none"> <li>Disconnect sensor “=CAR1.X85-B01”</li> <li>Press start</li> </ul>
Consequence	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> <li>Machine cannot be started as long as fault is active</li> </ul>
Comments	<ul style="list-style-type: none"> <li>None</li> </ul>
Acknowledgement	<ul style="list-style-type: none"> <li>Reconnect sensor: “=CAR1.X85-B01”</li> <li>Press “Reset”</li> </ul>

Test result		yes/no
Acceptance criteria	<ul style="list-style-type: none"> <li>Fault message is displayed on control panel</li> </ul>	<input type="text"/>
	<ul style="list-style-type: none"> <li>Machine cannot be started as long as fault is active</li> </ul>	<input type="text"/>
Comments	<div></div>	

<b>Results comply</b>	yes/no	Date/Initials
	<input type="text"/>	<input type="text"/>
<b>Results approved</b>	Date/Initials	
	<input type="text"/>	



## 10 Notes

## Alarm and Function Testing Report

**CUC 2002**

**Cartoning machine**

**100261**

**Glaxowellcome Production**

**France**

Alarm and Function Testing Report approval by ROTZINGER PharmaPack GmbH (after execution)

Function	Name	Position/Company	Signature	Date
Approved by				
Approved by				

The AFT was performed in \_\_\_\_\_ from \_\_\_\_\_ until \_\_\_\_\_ .

<b>Summary result</b> The test execution has shown that, ...	<b>yes/no</b>
the AFT has been completed successfully without deviations.	
the AFT has been performed with deviations. A deviation report has been created and follow up actions have been defined.	

<b>Final conclusion</b>	<b>yes/no</b>
The next qualification step can be started.	
Before starting the next qualification step, the deviations must be closed.	

Alarm and Function Testing Report approval by Glaxowellcome Production (after execution)

Function	Name	Position/Company	Signature	Date
Approved by				
Approved by				
Approved by				

Document history:

1.0	15.Sep.2023	Version for approval	Andreas Harzer
0.1	10.Jul.2023	First draft version	Andreas Harzer
<b>Rev.</b>	<b>Date</b>	<b>Description</b>	<b>Author</b>