

Label printing system Specifications Documentation EN Blueprint for ASI Blueprint

R6

Made for : Asian Stanley International Co., Ltd.

By : TOMAS TECH CO.,LTD.








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Revision History

| Date | Version | File name | Details |
|-------------|---------|---|--|
| 27/Jul/2023 | R1 | Label printing system Specifications Documentation EN for ASI Blueprint | First edition |
| 07/Aug/2023 | R2 | Label printing system Specifications Documentation EN for ASI Blueprint | Second edition  |
| 17/Aug/2023 | R3 | Label printing system Specifications Documentation EN for ASI Blueprint | Third edition  |
| 24/Aug/2023 | R4 | Label printing system Specifications Documentation EN for ASI Blueprint | Fourth edition  |
| 29/Aug/2023 | R5 | Label printing system Specifications Documentation EN for ASI Blueprint | Fifth edition  |
| 04/Sep/2023 | R6 | Label printing system Specifications Documentation EN for ASI Blueprint | Sixth edition  |

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2. Overall configuration diagram
3. Schedule information
4. System functional specifications
5. Q&A
6. Sign off

1. Overview

We propose a label issuance management system to Asian Stanley. International Limited. By utilizing this system, we will realize “Traceability management”, “Visualization of work” and “Improvement of quality”.

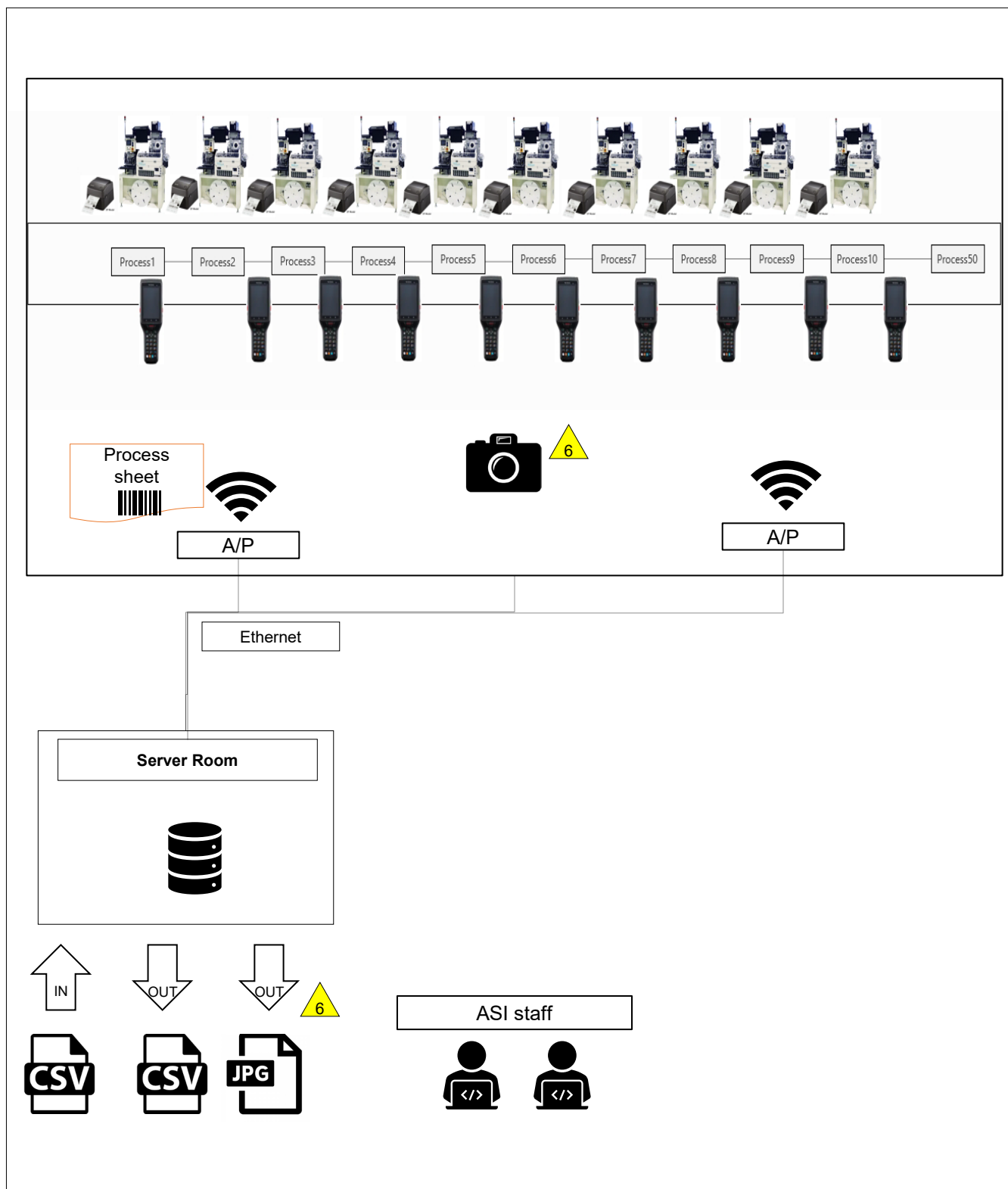
Advantages of introducing the system

1. It is possible to realize **“Traceability management” and “Improvement of quality” because the log of process work can be recorded.**
2. By accumulating process work logs in the database, it is possible to output CSV data. Since it is possible to output reports with various granularities such as progress management and work time of processes, **it is possible to realize “visualization of work”.**
3. Labels are issued just-in-time, which prevents labeling errors on reels. In addition, after labels are issued, **it is possible to forcibly space them apart, which prevents them from being pasted together and achieves “Improved quality.”**

2. Overall configuration diagram

Regarding the Process control system, consider the following system configuration.

Overall configuration diagram image



3. Document information

1. ID CARD (Input data)



ID CARD 6 digit

2. Rank Card (Input data)



CLASSIFY LOT NO. : E3803023A

ICS CODE + RANK + QTY :
1483992500B8C--036983

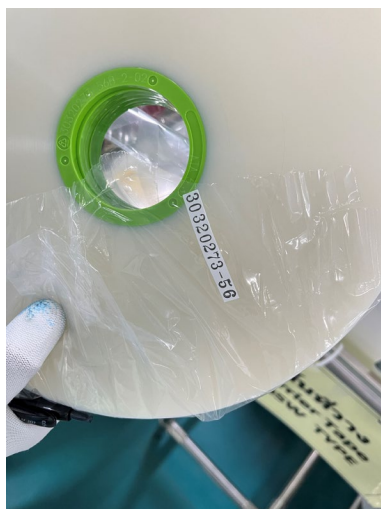
| ICS Code | Product Name | Rank | Customer Reference | Qty / Reel |
|------------|---------------------|-------|--------------------|------------|
| 0002519400 | RFY1112H-734-TR | E-D-- | | 4000 |
| 0002744800 | FRYPY1204W-TR | ACB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BAA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BAB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BBA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BBB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BCA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | BCB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CAA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CAB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CBA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CBB-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CCA-- | | 2500 |
| 0002744800 | FRYPY1204W-TR | CCB-- | | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C5A-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C5B-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C6A-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C6B-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C7A-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C7B-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C8A-- | VFR1102W-4C52A-TRB | 2500 |
| 0005411900 | VFR1102W-4C52A-U-TR | C8B-- | VFR1102W-4C52A-TRB | 2500 |

3. Document information

3. Machine No. (Input data)

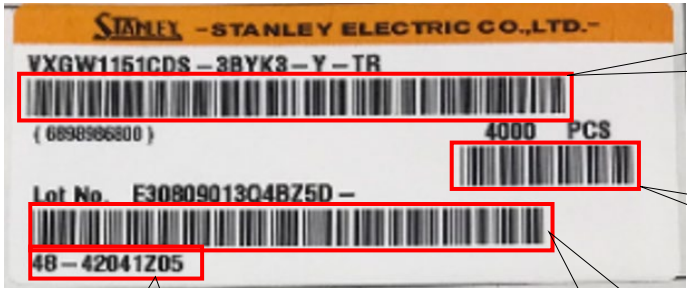
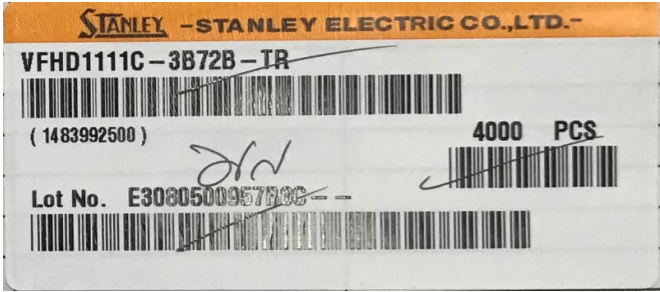


4. Material (Input data)



3. Document information

5. TAPING LABEL (Output data) 3



Product Name :
XGW1151CDS-3BK3-YTR

STD. PACK (QTY. / REEL): **4000**

CUSTOMER CODE : **48-42041Z05**

TAPING LOT NO: **E30803013Q4BZ5D-**

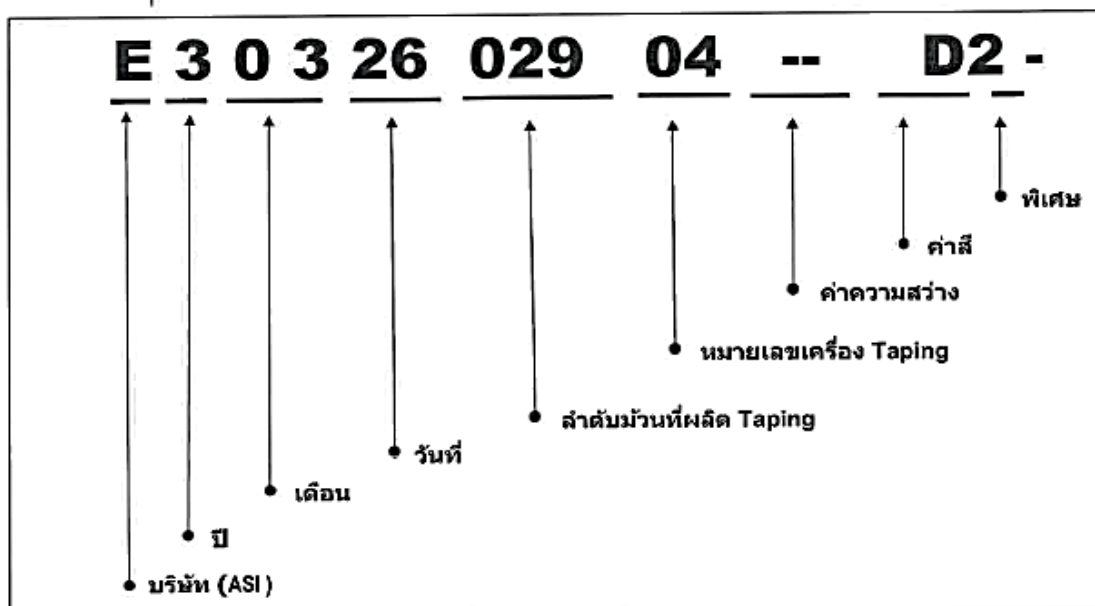
3. Document information

6. Format TAPING Lot No. (Output data)

6.1

| WORK INSTRUCTION | | |
|---|---|---|
| ASIAN STANLEY INTERNATIONAL CO., LTD. | | |
| DOC. Title : การอ่าน BARCODE | Doc. No. : WI-DPL-039-014 | Page 1 of 2 |
| | Revision : A-1 | Special Characteristic(SC): |
| Process : PLCC | Effective Date : 23 MAY 2022 | <input type="checkbox"/> SC <input checked="" type="checkbox"/> No SC |
| User : ผู้ปฏิบัติงาน | 1 st Issued date : 03-Apr-13 | Copy No : |
| Prepared : Working Team | Reviewed : Core Team | Authorized : SM or DDM or DM |
| วัตถุประสงค์ (Purpose) : เพื่อให้พนักงานมีความรู้ความเข้าใจและปฏิบัติงานได้อย่างถูกต้อง | | |
| เอกสารที่เกี่ยวข้อง (Related) : QP-014 Product traceability | | |

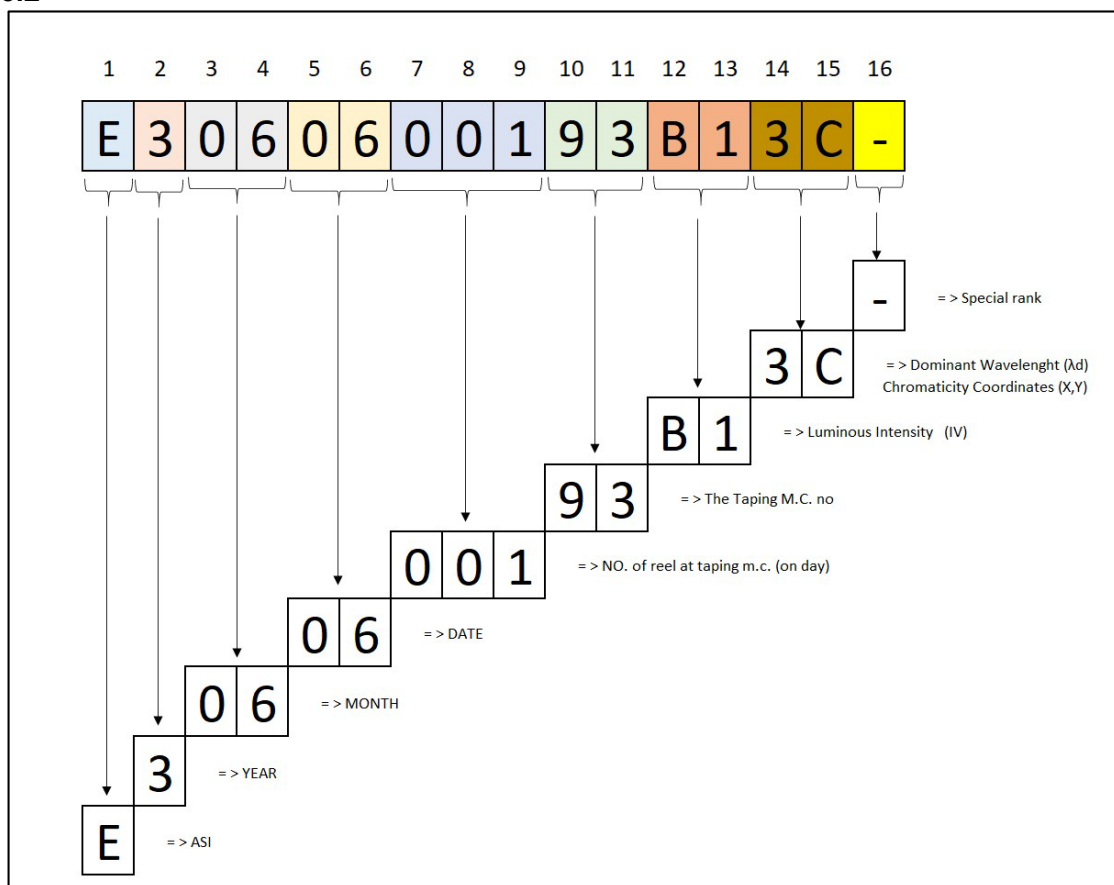
การอ่าน BARCODE



3. Document information

6. Format TAPING Lot No. (Output data)

6.2



3. Document information

6. Format TAPING Lot No. (Output data) 3

6.3

1

2

3

4

| | | | | | | |
|------------|-------------|--------------------------|------------------|-------------------|-------------|----------------|
| 記号 SYM. | 区 域 ZONE | 変 更 事 項 REVISIONS | 発訂表示 REV. NO. | 連絡書番号 NTF. NO. | 日 付 DATE | 担当者 REV. BY |
| | | 新図発行 / ISSUE OF NEW DWG. | A | ED021366 | 2004.1.8 | 渡辺 |

出 図
2023.06.06
PDM 推進課
DRAWING
ロットナンバー表示方法 / Lot number and rank notational system

①

②

③

④

① 1桁 : 製造ロットNO.
1digit
Lot. No. of production .

② 2桁 : 光度、放射強度、光電流ランク
2 digit
(表示が1桁の場合は2桁目を“-”、ランク表示がない場合は“- ”とします)
Luminous Intensity Rank or Radiant Intensity Rank, otherwise Photo Current Rank
(If only 1 digit, second digit must be dash “-” and if not identified rank, it’s “- ”.)

③ 2桁 : 色調、色度ランク
2 digit
(表示が1桁の場合は2桁目を“-”、ランク表示がない場合は“- ”とします)
※Y’, A’ ランク等の場合は “ ’ ” を使用せず “YY”, “AA” の様に文字を重ねます。
Dominant Wavelength Rank , Chromaticity Rank
(If only 1 digit, second digit must be dash “-” and if not identified rank, it’s “- ”.)
※Special rank identification such as Y’, A’ rank must be “YY” or “AA”, not using prime “ ’ ”.

④ 1桁 : 特殊選別ランク (通常は “-” とします)
1 digit
Option Rank (Normally it’s “-”.)

| | | | | | | |
|----------------|----------------------|----------------------------|------------------|--|-------------|----------------|
| 記号 SYM. | 品 名 コード PART CODE | 部 品 名 PART NAME | 品 名 NAME | 図 番 DWG. NO. | 数 量 QTY. | 備 考 REMARKS |
| 材質 MATAL. | | 設計 DGN. 渡辺晴志 | 検 図 CHK. 栗山真樹 | 品 名 コー ド PART CODE (EC:ED021366) | | |
| 処理 FINISH | | 制定日 DWG. DATE 2004.1.8 | 承認 APP. 渡辺直仁 | 品 名 NAME ロットナンバー表示方法/Lot number notational system | | |
| 質量 MASS | | | | | | |
| 尺 度 SCALE | : | スタンレー電気株式会社 (P#:D05UB) | | | | |
| 単位 UNIT mm. | ⌀ | STANLEY ELECTRIC CO., LTD. | | | | |

1

4

CV

A4

11

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

1. Main Menu

Main Menu

Device : HT_01

Taping Label

Balance Label

Change Model Label

Defective Label

Expired label

App Close [P1]

2. Taping Label

Taping Label

Device : HT_01

Date : 26-07-2023

User IDMachine No.

Scan Rank Card

Model name :

Rank :Lot No.

Lot No. QTY./REEL QTY Balance

Item 0

Item 1

Item 2

Item 3

Item 4

Item 5

Item 6

Item 7

QTY. / REEL

Label Qty 2

Clear [P3]

Print [P2]

3. Balance Label

Balance Label

Device : HT_01

Date : 26-07-2023

User IDMachine No.

Scan Rank Card

Model name :

Rank :Lot No.

QTY. / REEL

MaterialScan Material

Item 0

Item 1

Item 2

Label Qty 1

Clear [P3]

Print [P2]

4. Change Model Label

Change Model Label

Device : HT_01

Date : 26-07-2023

User IDMachine No.

Scan Taping Label

Lot No. :

Select New Model.

Label Qty 3

Clear [P3]

Print [P2]

5. Defective Label

Defective Label

Device : HT_01

Date : 26-07-2023

User IDMachine No.

Enter data

ICS Code :

Model Name :

Rank :

Remark :

Label Qty 3

Clear [P3]

Print [P2]

6. Expired Label

Expired Label

Device : HT_01

Date : 26-07-2023

User IDMachine No.

Scan Taping Label

Lot No. :

Label Qty 3

Clear [P3]

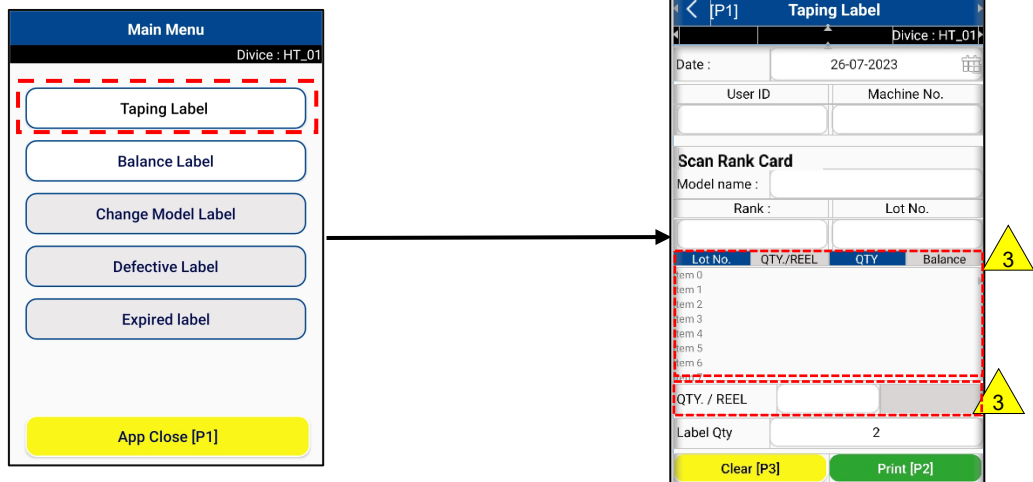
Print [P2]

4. System functional specifications

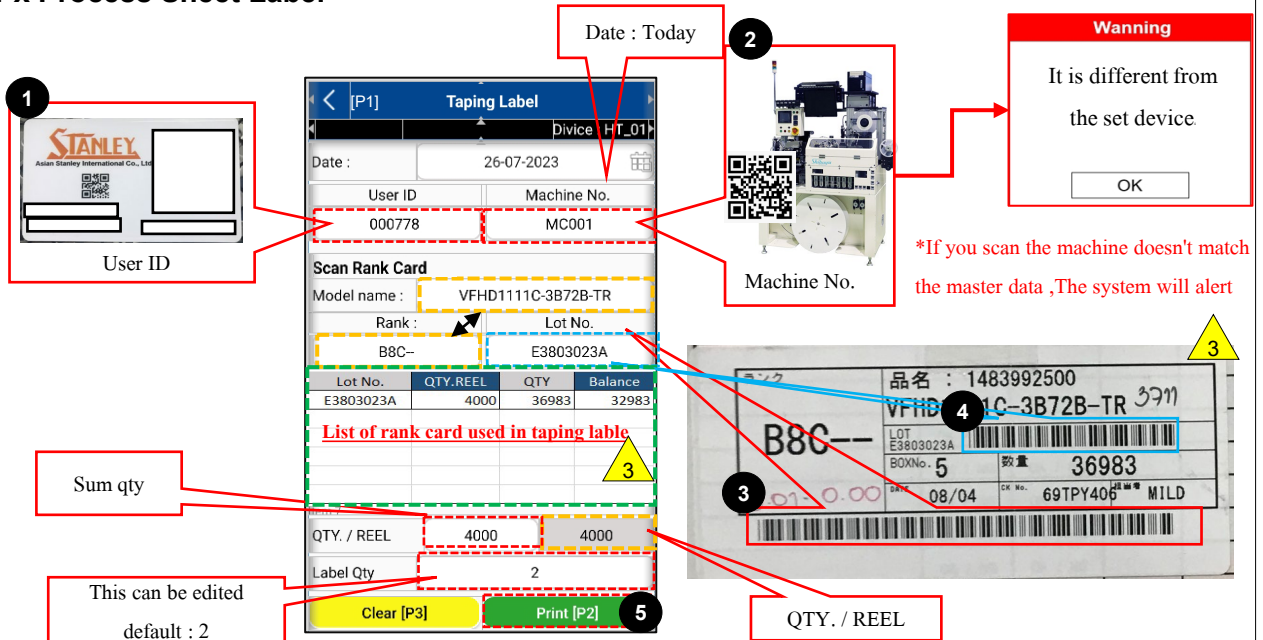
4-1. Handy terminal function

Handy terminal function / screen image

4-1.1 Taping Label



1 x Process Sheet Label



Step : Scan for print label

- 1.Scan User ID
- 2.Scan Machine No.
- 3.Scan label → ***Format Barcode**
- 4.Scan Lot No. of label.
- 4.Click Print button

Format Barcode

1483992500B8C--036983

1483992500 → ICSCode

B8C-- → Rank

036983 → Qty

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

2 or more than x Process Sheet Label

2

1#

< [P1]

Taping Label

Device : HT_01

Date :

26-07-2023

User ID

Machine No.

000778

MC001

Scan Rank Card

Model name :

VFHD1111C-3B72B-TR

Rank :

Lot No.

B8C-

E3803023A

| Lot No. | QTY.REEL | QTY | Balance |
|-----------|----------|------|---------|
| E3803023A | 1800 | 1800 | 0 |

List of rank card used in taping lable

QTY. / REEL

1800

4000

Label Qty

2

Clear [P3]

Print [P2]



Lot No. : E3803023A
Qty : 1800

2#

< [P1]

Taping Label

Device : HT_01

Date :

26-07-2023

User ID

Machine No.

000778

MC001

Scan Rank Card

Model name :

VFHD1111C-3B72B-TR

Rank :

Lot No.

B8C-

E3803023A

| Lot No. | QTY.REEL | QTY | Balance |
|-----------|----------|------|---------|
| E3803023A | 1800 | 1800 | 0 |
| E3803024A | 2200 | 3000 | 800 |

List of rank card used in taping lable

QTY. / REEL

4000

4000

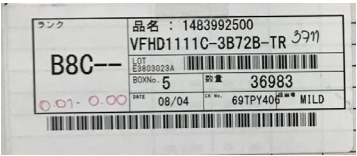
Label Qty

2

Clear [P3]

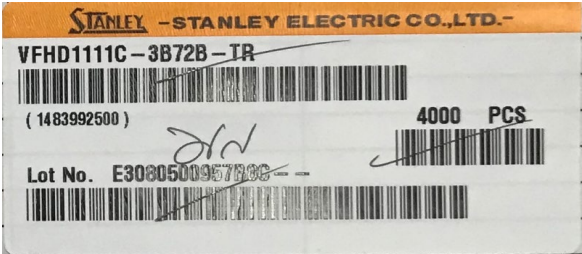
Print [P2]

Scan the labels with the same ICSCode, same rank only.



Lot No. : E3803024A
Qty : 3000

TAPING LABEL (Output data)



The system records the rank card information used to print the label.

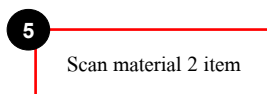
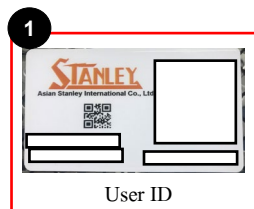
4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

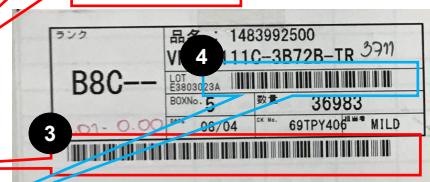
4-1.2 Balance Label

The diagram shows the flow from the Main Menu to the Balance Label screen. The Main Menu has buttons for Taping Label, Balance Label, Change Model Label, Defective Label, Expired label, and App Close [P1]. The Balance Label screen shows fields for Date (26-07-2023), User ID, Machine No., Scan Rank Card (Model name, Rank, Lot No.), QTY. / REEL, Material, Scan Material, Item 0, Item 1, Item 2, Label Qty (1), and buttons for Clear [P3] and Print [P2].



This can be edited
default : 1

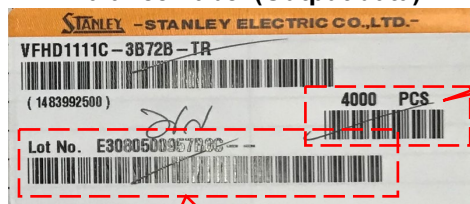
The Balance Label screen is shown with annotations. The User ID field is 000778 and the Machine No. field is MC001. The Scan Rank Card section shows Model name: VFHD1111C-3B72B-TR, Rank: B8C-, and Lot No. E3803023A. The QTY. / REEL section shows 1500 and 4000. The Material field is Scan Material. The Label Qty field is 1. The Print [P2] button is highlighted with a red box and a yellow triangle.



Warning
qty balance > qty / reel
Please confirm again
Cancel OK

*if qty balance > qty reel
The system will alert confirm

Balance Label (Output data)



Lot No. E3803023A
lot no. of rank card

1500 PCS

4000 PCS

Rank Card



Qty = 0

It can't be used for issue a taping label

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

4-1.3 Change Model Label

4

Main Menu

Device : HT_01

Taping Label

Balance Label

Change Model Label

Defective Label

Expired label

App Close [P1]

[P1] Change Model Label

Device : HT_01

Date : 26-07-2023

User ID Machine No.

Scan Taping Label


Lot No. :

Select New Model.

Label Qty 3

Clear [P3] Print [P2]

1



User ID

* LEADER only*

[P1] Change Model Label

Device : HT_01

Date : 26-07-2023

User ID Machine No.

000778 Q4

Scan Taping Label

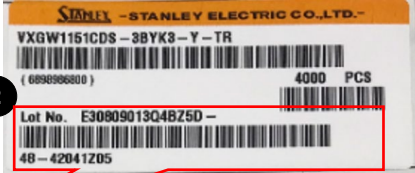
Lot No. : E30809013Q4BZ5D-

Select New Model. VXGW1151CDS

Label Qty 3

Clear [P3] Print [P2] 4

2




3

Select new model form list

This can be edited
default : 3

Change Model Label (Output data)



* VXGW1151CDS *

new model

Running number run according to the
current operation of the machine.

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

4-1.4 Defective Label

Main Menu
Device : HT_01

Taping Label

Balance Label

Change Model Label

Defective Label

Expired label

App Close [P1]

< [P1] Defective Label

Device : HT_01

Date : 26-07-2023

User ID Machine No.

Enter data

ICS Code :

Model Name :

Rank :

Remark :

Label Qty 3

Clear [P3] Print [P2]

1

Stanley Asian Stanley International Co., Ltd.

User ID

* LEADER only*

< [P1] Defective Label

Device : HT_01

Date : 26-07-2023

User ID 000778 Machine No. 1A

Enter data

ICS Code : 1243997000

Model Name : VYPY1105W-3C62A-S-TR

Rank : BZ5D-

Remark :

Label Qty 3

Clear [P3] 6 Print [P2]

2 input Machine No. 2 digit

3 input ICS Code + ENT

4 Select rank form list

5 input remark

6 This can be edited default : 3

Defective Label (Output data)

Stanley - STANLEY ELECTRIC CO., LTD.

VXGW1151CDS - 3BYK3 - Y - TR

(6898966800) 4000 PCS

Lot No. E30809013Q48Z5D -

48 - 42041Z05

Running number run according to the current operation of the machine.

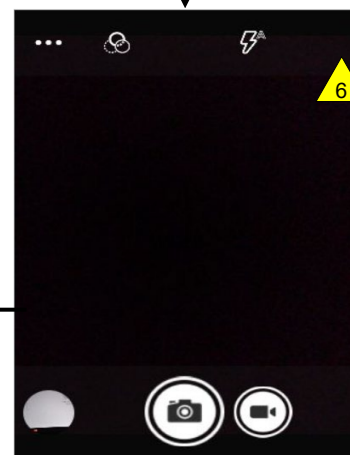


Image name = Lot No.

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

4-1.5 Expired Label

4

The diagram shows the navigation from the Main Menu to the Expired Label screen. The Main Menu screen has a blue header with 'Main Menu' and 'Device : HT_01'. It contains buttons for 'Taping Label', 'Balance Label', 'Change Model Label', 'Defective Label', 'Expired label' (highlighted with a red dashed border), and 'App Close [P1]' at the bottom. An arrow points from the 'Expired label' button to the Expired Label screen. The Expired Label screen has a blue header with 'Expired Label' and 'Device : HT_01'. It displays 'Date : 26-07-2023', 'User ID' and 'Machine No.' fields, a 'Scan Taping Label' section with 'Lot No. : ' and 'Label Qty' (set to 3), and 'Clear [P3]' and 'Print [P2]' buttons at the bottom.

This section shows the Expired Label screen with detailed annotations. A red box labeled '1' points to the 'User ID' field, which contains '000778' and is annotated with '* LEADER only*'. A red box labeled '2' points to the 'Lot No.' field, which contains 'E30809013Q4BZ5D-'. A red box labeled '3' points to the 'Print [P2]' button. A red box points to the 'Label Qty' field, which contains '3', with the annotation 'This can be edited default : 3'. A red box points to the 'Machine No.' field, which contains 'Q4'. A red box points to the 'Scan Taping Label' section, which contains 'Lot No. : E30809013Q4BZ5D-'. A red box points to the 'Lot No.' field on the physical label output, which contains 'E30809013Q4BZ5D-'. A red box points to the 'Label Qty' field on the physical label output, which contains '3'.

Expired Label (Output data)

The diagram shows the physical label output. It has a blue header with 'STANLEY - STANLEY ELECTRIC CO., LTD.' and 'VXGW1151CDS - 3BYK3 - Y - TR'. It contains a barcode, '4000 PCS', 'Lot No. E30809013Q4BZ5D -', and '48 - 42041Z05'.

Running number run according to the current operation of the machine.

4. System functional specifications

4-1. Handy terminal function

Handy terminal function / screen image

Condition

2

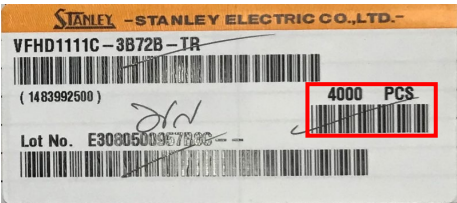
1) Taping Label printing

The sum must be the same as the required qty.

3

| Lot No. | QTY.REEL | QTY | Balance |
|-----------|----------|------|---------|
| E3803023A | 1800 | 1800 | 0 |
| E3803024A | 2200 | 3000 | 800 |
| | | | |
| | | | |
| | | | |

=



Print [P2]

| | | | |
|-------------|------|---|------|
| QTY. / REEL | 4000 | = | 4000 |
|-------------|------|---|------|

Warning

The quantity
is not yet complete

OK

The system will alert

If the quantity is not yet complete

2) Making a new transaction on the same machine (Taping Label printing only)

You won't be able to print the label right away. After just printing the previous label.

You must wait for the specified waiting period, therefore able to do the transaction again

Warning

Machine is working
wait a moment

OK

The system will alert

if the time limit has not yet expired.

4. System functional specifications

4-2. PC application screen image

PC function / screen image

Main menu

The screenshot shows a software window titled "Main menu" with a standard Windows-style title bar (minimize, maximize, close buttons). The interface contains the following elements:

- A "Select" dropdown menu at the top.
- A red dashed rectangular box enclosing the "Date" section (with "From" and "To" date input fields) and the "Machine" dropdown menu.
- Two buttons labeled "IMPORT" and "EXPORT" positioned below the red dashed box.
- A "Status" label followed by a large empty rectangular area at the bottom.

Annotations and callouts:

- A yellow triangle with the number "2" points to the "Select" dropdown menu.
- A yellow triangle with the number "2" points to the "Date" section within the red dashed box.
- A yellow triangle with the number "4" points to the "Machine" dropdown menu.
- A text box containing a list of menu items is connected to the "Select" dropdown by a line:
 - 1. User Master
 - 2. Item Master
 - 3. Machine Master
 - 4. Label Report
 - 5. Summary Report
- A text box with the message "Will be displayed when selecting a report" points to the "EXPORT" button.

5. Q&A

| # | Date | Question | By | Date | Answer | By |
|---|------|----------|----|------|--------|----|
| | | | | | | |
| | | | | | | |
| | | | | | | |
| | | | | | | |

6. Sign off

We hereby acknowledge and agree the above-mentioned blueprint requirements.
Any changes required after the sign off for this blueprint will be addressed through the change request process.

ASIAN STANLEY INTERNATIONAL CO.,LTD.

Sign: _____

Name: _____

Title: _____

Date: _____

TOMAS TECH CO.,LTD.

Sign: Ryo Nozaki

Name: Ryo Nozaki

Title: CEO

Date: 04/Sep/2023



END OF BLUEPRINT##