

| Process Name/ Title: |                  |              |                 |           |            |
|----------------------|------------------|--------------|-----------------|-----------|------------|
| Vinyl Tube Cutting   | g / Process Flow | Document N   | No:             | WI-PRO    | O-CNC-001  |
| WORK INSTRUCTION     |                  | Effective Da | Effective Date: |           | r 17, 2024 |
| Product Code/Name:   | Customer Code:   | Boy No.      | •               | Daga Na i | 1 05 1     |

## 

## 1 Check work area. Conduct 5s on table.

- 2 Check daily plan(Identification Tag), Prepare cutting ledger and check raw materials availability.
  - If not available, request parts from warehouse using Parts Request Kanban.

3 Record Start time on Tube Cutting Daily Report and Set-Up and Downtime Monitoring.

Perform machine checking and fill-out Machine Daily Check sheet. After finishing, record end time on Set-Up and Downtime Monitoring.

| Leader<br>ignature | Start | Finish | Product Name       |
|--------------------|-------|--------|--------------------|
| rst Piece          | time  | time   | Production Lot No. |
|                    | 8:00  |        |                    |
|                    |       |        |                    |

| UP and EXP         | ECIEDI   |
|--------------------|----------|
| DURATION<br>(mins) | ACTIVITY |
|                    | A        |
|                    | DURATION |

SET UP and EXPECTED DO
TIME DURATION (mins) ACTIVITY

8:00 - 8:02 A

In case of abnormality is encountered during machine checking, follow STOP-CALL-WAIT Procedure

- 4 Proceed to Machine Set-Up.
  - 4.1 Record Set Up and Adjustment start time on Set-Up and Downtime Monitoring.

| SET UP and EXPECTED |                    |          |  |  |
|---------------------|--------------------|----------|--|--|
| TIME                | DURATION<br>(mins) | ACTIVITY |  |  |
| 8:00 - 8:02         |                    | А        |  |  |
| 8:02-               |                    | В        |  |  |

4.2 Set guide jig on feeding machine, roller guide and on machine tube guide



4.3 Get the tube from the tube rack or on the box. Check material label





4.4 Load vinyl tube on loading saucer. Untie or remove the plastic of tube. Cut the end of the tube. End of tube must be on the left side. Loading saucer must rotate counterclockwise.



4.5 Get label and parts Kanban put in designated area.



Daily Report (F-PRO-CNC-005)

Set up and Downtime Monitoring (F-PRO-CNC-004)

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Note: Adjust pipe if set up cannot fit tube, loose bolt and adjust.

If change set up from sunprene(vm) tube to vinyl (sv) and vice versa



Don't force tube to fit to avoid scratch

**Note:** If the tube is not consume return the tube in the vinyl tube rack or in the box.

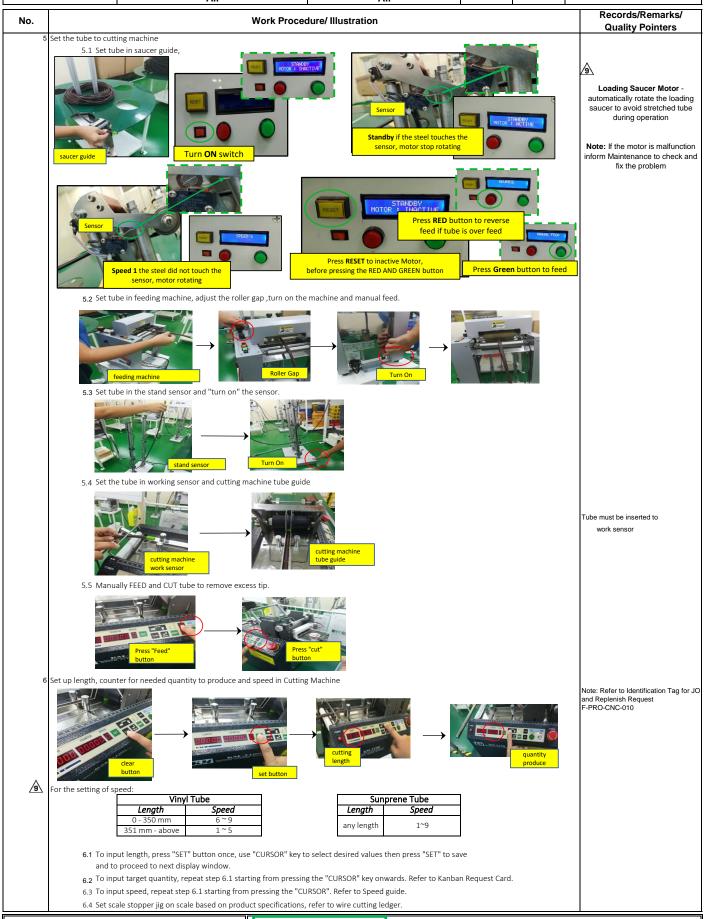
| 10/17/2024    | 9        | Change in inspection of tube and add setting qty of bundle                                    | M. Lipaopao/<br>W. Bergado | C. Calayan | M.W. Carbillon | Prepare     | Check      | Approve        |
|---------------|----------|---|----------------------------|------------|----------------|-------------|------------|----------------|
| 11/23/2023    | 8        | "TAKTAK" tube during bundling of tube and use sorting data if encountered machine error       | M. Lipaopao                | W. Bergado | M. Carbillon   | ,           |            |                |
| 7/25/2023     | 7        | Add details for set up of tube in loading saucer, checking of box and use of tray             | M. Lipaopao                | W. Bergado |                | June 1      |            |                |
| 11/15/2022    | 6        | Additional reference to input the target qty. and include checking of inside diameter of tube | M. Lipaopao                | W. Bergado | O.Merin        | M.Lipaopao/ | (a)1. 5    | Cally          |
| 3/19/2022     | 5        | Change speed of tube and add content after checking the last piece.                           | W. Bergado                 | O. Merin   | O.Merin /      | W. Bergado  | C. Calayan | M.W. Carbillon |
| Eff./Rev.Date | Rev. No. | Details of change   | Revise                     | Check      | Approve        | Est. date:  | 7/10/      | /2017          |

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| Process Name/ Title: |                  |              |      |           |             |
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| Vinyl Tube Cutting   | g / Process Flow | Document N   | No:  | WI-PR     | O-CNC-001   |
| WORK INST            | RUCTION          | Effective Da | ate: | Octobe    | er 17, 2024 |
| Product Code/Name:   | Customer Code:   | Rev. No.:    | 0    | Page No.: | 2 of 4      |
| All                  | All              | IVEATINOT.   | 9    | raye No   | 2 01 4      |

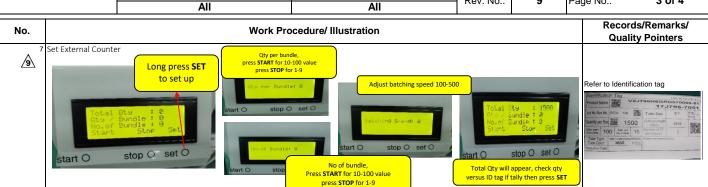


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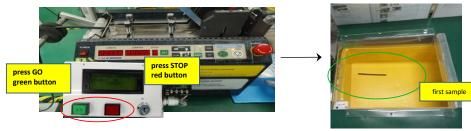
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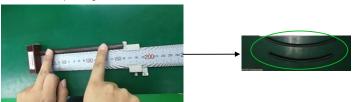
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|-----------------------------------|----------------|--------------|------|-----------|------------|
| Vinyl Tube Cutting / Process Flow |                | Document N   | No:  | WI-PRC    | D-CNC-001  |
| WORK INST                         | RUCTION        | Effective Da | ite: | Octobe    | r 17, 2024 |
| Product Code/Name:                | Customer Code: | Rev No:      | ۵    | Page No : | 3 of 4     |
|                                   |                |              |      |           |            |



Produce two good product for Hatsumono.
 8.1 Press "start" then stop to produce the 1st piece.



8.2 Measure the first piece. If first piece does not meet the target value, adjust setting until target value is met. Attach first piece tag.



Record end time in set up and downtime monitoring.

| SET UP and EXPECTED I |                    |          |  |  |  |  |
|-----------------------|--------------------|----------|--|--|--|--|
| TIME                  | DURATION<br>(mins) | ACTIVITY |  |  |  |  |
| 8:00 - 8:02           |                    | А        |  |  |  |  |
| 8:02 8:06             | )                  | В        |  |  |  |  |

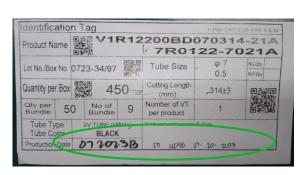
9 Accomplish daily report, and set up and downtime monitoring. Record start time of Daily Entry in set up and downtime monitoring. Complete details in daily report

Accomplish Parts Identification Tag and place it on parts box.

For Set up and Downtime Monitoring:

| 8:00 - 8:02  | A   |
|--------------|-----|
| 8:02 - 8: 06 | В   |
| 8:06 '-      | c > |

For Identification Tag



Note: To accomplish ID Tag

Produce by use CNC Code

Note: If first piece is within the

tolerance refer to cutting ledger (CL-ENG-PDE) include in good product, if

out of tolerance immediately scrap to avoid mixing to good product

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|                                   | Product Code/Name:   | Customer Code: | Rev. No.:    | 0               | Page No.: | 4 of 4           |  |
|                                   | All                  | All            | Ticev. No    | 9               | rage No   | 4014             |  |

| No.       | Work Procedure/ Illustration  | Records/Remarks/<br>Quality Pointers  |
|-----------|---|---|
|           | Call Senior Line Leader / Line leader and Freeman to check the first 2 good product.  Hatsumono Checkpoints; Cutting Ledger   | Note: Operation can start after producing of 2 good product for hatsumono of leader and end time of daily entry while waiting of leader or checking is on going.                          |
|           | Id Tag Material Label Inside diameter® maximum and minimum inside diameter Cutting length tube, Inform immediate superior.  Appearance Cross section  Senior Line Leader/Line leader or Freeman record actual measurement in daily report (inside diameter, cutting length), cross section judgement. Checker will sign Id tag and scan name in daily report.   | Waiting of leader should be reflected in downtime.  |
| 11        | Operator will record end time of Daily entry right after recording of 1st piece.  8:00 - 8:02   |   |
| 12        | During Mass Production.  Note:  For below 400mm no inspection of appearance, cross section and length,  Conduct sampling inspection only in first 3 bundles atleast 3pcs each bundles.  | <u></u>   |
|           | For 400mm and above conduct 100% inspection  Wear PPE gloves once mass production start.  Bundling of tube:  For the length of 100mm to 155mm - Align and "TAKTAK" each bundle to check if there is length variation and tie the tube.  For the length of 156mm ~ above - "TAKTAK" each bundle to check if there is length variation and tie the tube.  | Using of tray is allowed to catch<br>the tube for length 250mm below  |
|           | Use plastic for <b>99mm</b> and below, use rubber band to tie tube when bundling for <b>100mm</b> and above   |   |
|           | Inspection should be done on affected parts on tray if any machine error occurred.  (e.g. stuck on loading saucer, looping on stand sensor, feeding error)  | Use Sorting Data to record the result of sorting.   |
| <u>\$</u> | Note: Any problem encounter STOP CALL WAIT should be done. Leader will verify and reset machine when error to proceed mass production if machine was on error When encounter stuck on loading saucer check tube from the feeding machine to stand sensor must be done, if tangled tube in loading saucer must check tube from loading saucer to stand sensor  | Note:   |
| 13        | After finishing one model, operator must measure and check the last piece, put it on the table beside last bundle and attach last piece tag.  Operator will call Senior Line Leader / Line Leader or Freeman for checking of last piece.  Leader or Freeman will record actual length, cross section cut (last piece) and scan their name as sign in daily report.  Note: After checking of last piece immediately put the last piece on last bundle then put in the box.  Make sure no tube left inside the box and tray, do "taktak" of the box/tray. | Call leader if product is about to finish<br>for checking of last piece. Operator<br>may start to set up machine but<br>cannot start operation if last piece is<br>for checking of leader |
| Ŕ         | Reminder:  Press <b>RESET</b> in external counter when quantity per box is finished then repeat step 6 & 7 to set up machine and external counter.  If the lot is more than one box, press <b>RESET</b> in external counter then press <b>CLEAR</b> in Cutting machine and start operation.   |   |
| 14        | At the end of the shift, operator will accomplish daily report and set up and downtime monitoring.  Perform 5S and accomplish machine check sheet and summary of defects.   | Summary of Defects<br>F-PRO-CNC-014B  |

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