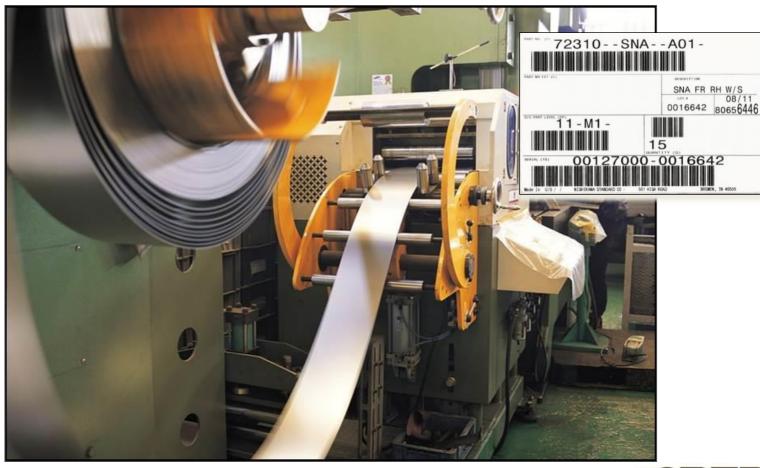
# 7 Benefits of Using PLCs for Parts Counting & Container Labeling



## 1. Error-proof Parts Counting

### All Parts are Counted Automatically:

- By individual pieces not just containers
- Counts good, scrap & rework pieces
- Counts serialized pieces

#### Interfaces to:

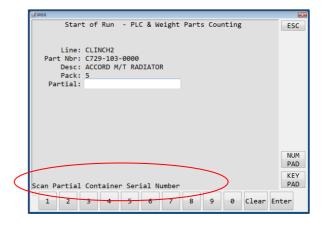
- Weigh Scales to count by weight
- Vision sensors (e.g. Keyence) to identify scrap
- Conveyors/diverters to divert scrap
- 2D Scanners or OCR to read & record serial numbers of pieces

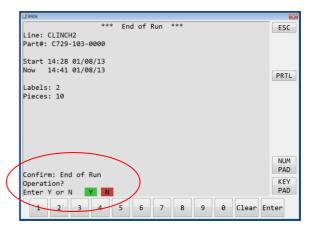


## 2. Control of Partials & Rework

### **Controls Piece Counts at Start / End of Run:**

- Uses the Container Serial Number for control
- Controls Partial Pack Counts at End of Run and End of Shift
- Pack Qty can be adjusted using a virtual keypad on the TouchScreen
- Validates aggregation of multiple containers of Partials with the same Part Number
- Validates new Full Pack containers built from multiple Partials
- Provides for Re-work operations on Partials



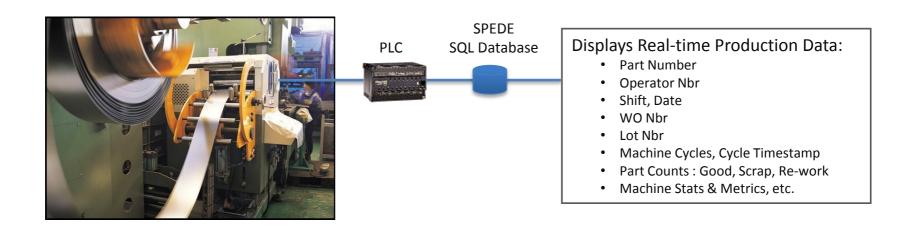


## 3. Real-time Production Visibility

#### View Real-time Production data via PC Browser:

- Production Counts by Part, Date, Line, Shift, Operator, etc.
- Scrap Counts by Part, Date, Line, Shift, etc.
- Partial Containers available for Re-pack, Re-work
- Production Counts of Re-work Pieces and Re-work Containers by Part, Date, Line, Shift, Operator, etc.
- Automatically exports production data to host ERP





## 4. Error-proof Container Labeling

#### The PLC is the most accurate source of information about the Part being made

- The PLC supplies Part Number, Run data, Piece Count
- SPEDE controls piece counts at Start of Run, End of Run
- SPEDE controls partial packs & counts at End of Run, End of Shift
  - Label prints automatically at full pack count of good parts
  - Can interface to vision sensors to identify scrap
  - Can interface to conveyor/diverter to divert scrap
  - Can interface to Weigh Scales for piece counts
  - Can interface to USB Cameras to ensure accurate packing of dunnage layers





PLC-controlled Print & Apply Labeling

## 5. Collect Machine Data for OEE Analysis

### You Can View OEE (Overall Equipment Effectiveness) Data

As a by-product of PLC controlled labeling, you can:

- View real-time Production data at line-side via TouchScreen
- Collect / Export Machine Run data for your OEE system:
  - Cycle Times, Part Counts, Scrap Counts, Downtime, etc.
- View, Sort and Analyze Machine Data in the SPEDE SQL database
- Build a real-time audit trail of activity per Machine
- Collect real-time Part / Serial traceability data by Machine

Use data mining to create your own Machine Performance Reports



## 6. Create Lot / Serial Traceability

## **Easy Access to Trace-back and Trace-forward Data**

SPEDE PLC Labeling links a Part Number to:

- Individual Part Serial Numbers or 2D Parts Marks
- Production Machine, Run Date, Shift, Operator, Lot Number, Location, etc.
- Container Serial Number(s) that the Part was packed in
- All other Serialized Parts in a generalized Container

Limit the scope of Recalls by using Data Mining to look up specific Part details

Printed By: Dan Worthington
Report Date: 01/08/2013
Report Time: 08:35:00
Page: 1 of 1

 Part Nbr
 Description
 Run Nbr
 Line Nbr
 C reate Date
 C reate By
 Qty

 C729-101-0000
 CIVIC M/T RADIATOR
 000012001
 CLINCH2
 11/05/2012
 JS MITH
 5

Item S/N AB879762351 AB879762352 AB879762353 AB879762354 AB879762355



## 7. Meet Customer QC Objectives

#### **And Improve Your Operations too**

- Every container has the Correct Part
- Every container has the Correct Quantity
- Every container has the Correct Label
- Every label has the Correct Data
- Meets Honda MPRs for an Accurate Labeling and Traceability Process

Bottom Line: Your OEMs are happy!





## **Complete PLC Labeling Solutions**

#### **Our Solutions include Software, Hardware & Services:**

- 1. SPEDE Software Platform and Labeling App PC server-based
- 2. Connectivity of PLCs and printers to the SPEDE WiFi network
- 3. Interfaces to your ERP, EDI, Release Accounting, OEE Systems
- 4. Total System Support, 365 days/yr
- 5. Quick Installation with no impact on your Production or IT resources

### **Additional Options:**

- 1. SPEDE-built PLCs for your production lines that need one
- 2. Interfaces to scales, vision, cameras, conveyors, OCR devices
- 3. WiFi TouchScreen PCs for line-sides
- WiFi Label Printers



## Meet a Few of our Customers ...









Driven by performance



























## To Discuss Your Line-side Project...

Call or Email:

Bob Bunsey
bbunsey@spede.com
440-808-8888 x22
www.spede.com

#### **About Us:**

SPEDE Technologies is a software and systems company specializing in solutions for automotive suppliers since 1980. Our focus is automating Production Area processes to increase efficiency, eliminate errors and improve profitability.

Our Customers are mid-size to Fortune 500 auto suppliers with multiple plant sites throughout the U.S. and in Mexico. They rely on SPEDE Automated Line-side Solutions to keep their mission-critical processes running smoothly, 24/7.

