



smlInventory

Shop Floor
Inventory Management

Product Introduction

smlInventory is a self-contained shop floor inventory management system.

When components are booked on the shop floor tracking of locations and use of individual parts is normally lost. smlInventory manages stock movements, it takes control where the ERP system leaves off.

smlInventory uses unique parts identity to keep track of individual stock items. Parts quantities and their locations are readily available.



Benefits

- You are able to easily find parts wherever they are stored. For example, on machines, on shelves, in towers, anywhere.
- Manufacturer / Supplier part numbers can be saved into a library to eliminate errors.
- Inventory parts list listing locations of individual reels can be generated from a BOM or SMT Placement file.
- Data can be entered into smlInventory using a bar code scanner. Automatic field identification is used. All in one bar codes can be decoded.
- Standard are available for most things such as transaction reports but user defined reports are available using the smlInventory in query builder.\
- smlInventory uses MySQL database to store data, so there are no database licensing costs associated with this product. MS SQL can still be used if it is a requirement.
- smlInventory can back flush ERP when there are stock discrepancies found at reel exhaust or stock count.
- SMT machines can feed into smlInventory to adjust the stock levels for the parts being consumed.


Enter New Items

New parts are entered using the “New Entry” screen as shown below.

This will produce a Unique Identification (UID) for each part.

The system can work with your internal part number or the Suppliers part number linking to a library.

Multiple manufactures for the same part number can easily be tracked individually.



Initialize Stores Reels 2018/11/07 10:53:14

Your Initials: AB Auto Scan

Unique ID: 10004824

Internal Part Number: 959595

Supplier Name: BOURNS

Supplier Part Number: MHZ-40Y **All in One Barcode**

Supplier Lot Number: LDT

Current Quantity: 40

Date Created: 11.7.18

Manufacture Date: 5.14.17

Location: Receiving Tape 8 mm

Status: Auto Reset Entries Auto Print Label

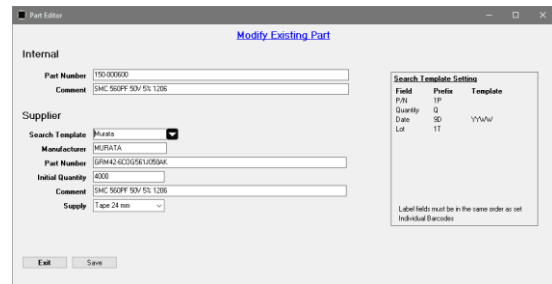
Location		Manufacturer		Quantities	
Area	MFG			Initial	
Location				Placed	0
Sub Location				Scrapped	0
Location Type				Last Verified	2018/11/07 10:53:14

Suppliers Library

If you want to link the internal part number with multiple suppliers then the supplier’s details are stored in the Supplier’s Library

Specific scan templates can be assigned for each supplier part. This will eliminate stores errors when receiving stock.

All in one bar codes can be decoded.



Part Editor **Modify Existing Part**

Internal
Part Number: 110-00000
Comment: SMC 500FF 50V 5% 1206

Supplier
Search Template: Murata

Manufacturer: MURATA

Part Number: GRM42 KC050K1005AK

Initial Quantity: 4000

Comment: SMC 500FF 50V 5% 1206

Supply:

Search Template Settings

Field	Prefix	Template
P/N	1P	
Quantity	Q	
Date	SD	YYMM
Lot	LT	

Label fields must be in the same order as set Individual Barcodes

Retire Empty Items

Active UID’s can be retired when they are exhausted.

These can be Automatically retired on scan or Ok confirmed.



Retire Empty Reels 9.25.18

Your Initials: AB Auto Scan

Unique ID: 10004816

Status: ACTIVE

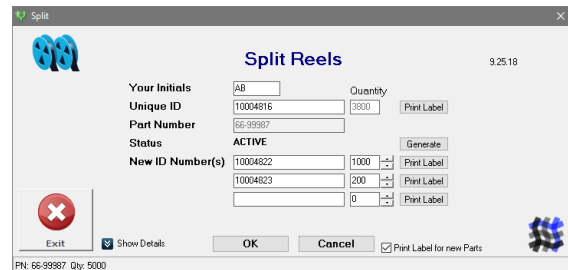
Auto Retire

Split Items

New items can be created using the split function. This allows reels to be split into multiple parts.

A unique “ID Number” is created for the new split parts.

As part quantities are entered the quantity of the initial reel is deducted.



Split Reels 9.25.18

Your Initials: AB Auto Scan

Unique ID: 10004816 Quantity: 3800

Part Number: 66-99987

Status: ACTIVE

New ID Number(s):

10004822	1000	<input type="button" value="Print Label"/>
10004823	200	<input type="button" value="Print Label"/>
	0	<input type="button" value="Print Label"/>

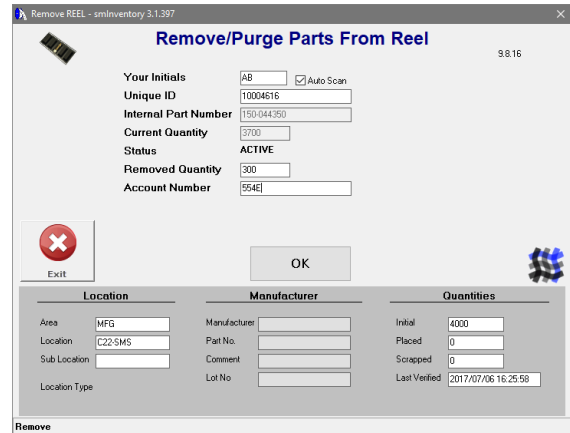
Print Label for new Parts

PN: 66-99987 Qty: 5000

Removing Parts

Parts can be removed from a reel and booked to another cost centre.

The current quantity is updated and the difference is logged and used for back flushing.



Remove REEL - smInventory 3.1.397

Remove/Purge Parts From Reel

9.8.16

Your Initials: AB Auto Scan

Unique ID: 10004516

Internal Part Number: 150-044350

Current Quantity: 3700

Status: ACTIVE

Removed Quantity: 300

Account Number: 554E

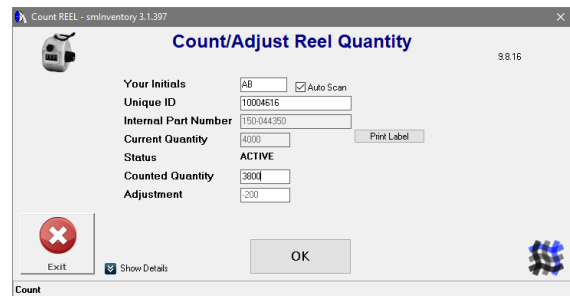
Buttons: Exit, OK

Location	Manufacturer	Quantities
Area: MFG	Manufacturer:	Initial: 4000
Location: C22SMS	Part No.:	Placed: 0
Sub Location:	Comment:	Scrapped: 0
Location Type:	Lot No.:	Last Verified: 2017/07/06 16:25:58

Remove

Stock Taking

When items are recounted the counted quantities are entered. The new current quantity is updated and the difference is logged and used for back flushing.



Count REEL - smInventory 3.1.397

Count/Adjust Reel Quantity

9.8.16

Your Initials: AB Auto Scan

Unique ID: 10004516

Internal Part Number: 150-044350

Current Quantity: 4000

Status: ACTIVE

Counted Quantity: 3800

Adjustment: 200

Buttons: Exit, Show Details, OK

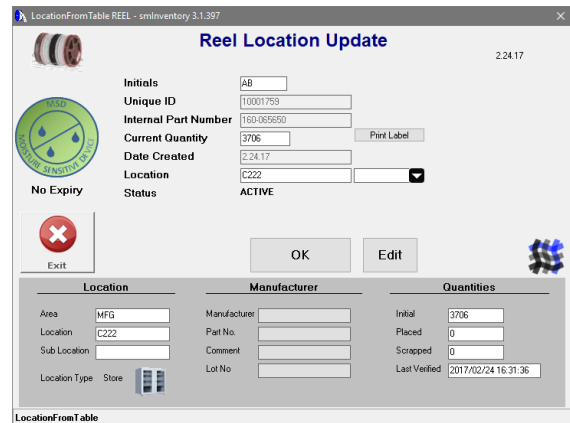
Count

Database Search / Location Update

Data can be viewed for both "Active" items and "Retired" items.

The list can be sorted by any column, plus there is an interactive search function available.

If MSD parts are used and smManage (MSD App) then the MSD status will be displayed.



LocationFromTable REEL - smInventory 3.1.397

Reel Location Update

2.24.17

Initials: AB

Unique ID: 10001759

Internal Part Number: 160-955650

Current Quantity: 3706

Date Created: 2.24.17

Location: C222

Status: ACTIVE

No Expiry

Buttons: Exit, OK, Edit

Location	Manufacturer	Quantities
Area: MFG	Manufacturer:	Initial: 3706
Location: C222	Part No.:	Placed: 0
Sub Location:	Comment:	Scrapped: 0
Location Type: Store	Lot No.:	Last Verified: 2017/02/24 16:31:36

LocationFromTable

Print Labels

smlInventory has a comprehensive label a design and printing system.

When a new Inventory item is entered into the system a label can be automatically printed out with the parts unique identifier and any other text or barcode information that you require. Labels with unique identifiers can also be printed manually at any time as required.

Using the “Label Wizard” (shown below), Labels can be configured in many ways:

- Any text size or font can be used.
- 1D and 2D barcodes are available.
- Line drawing tools can be used to enhance the look of the label.
- Drag functions are used to creat any label size.



Once a label is designed there is no need to enter the wizard. The design template is applied as required. The active text in the label is updated with the information unique to the part being scanned.

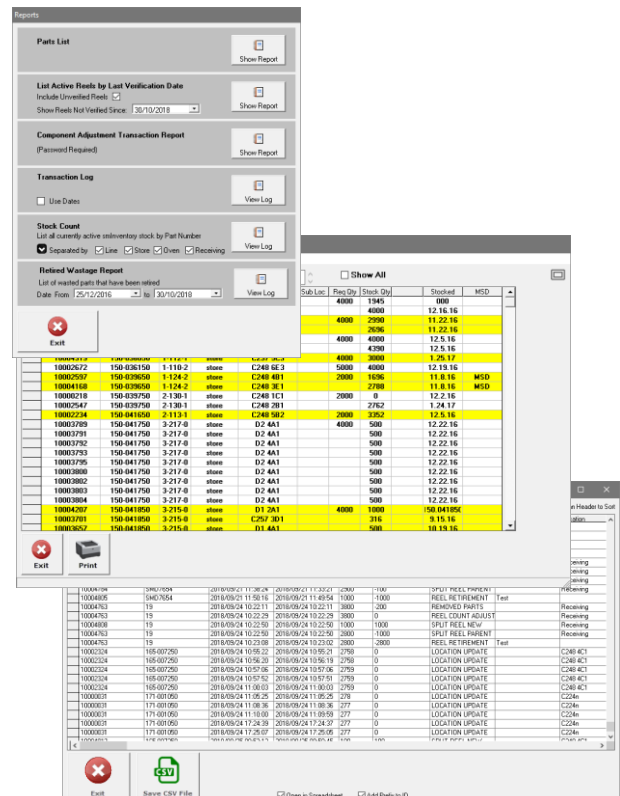
Reports

There are standard and user settable SQL quires available. These are reported in table format.

Standard Reports Include.

- Parts Lists – Used to locate and retrieve parts for a job.
- Transaction Logs – Used to see what has happened to any part.
- Stock Counts – See where parts are and how many.
- Wastage Reports – Keep track of wastage and avoid shortages.

Tables can be further formatted and exported for another system to use.



Part No	Description	Stock Qty	Stock On	MSD		
10000272	150-036150 1-110-2	stone	C248 6E 3	5000	4000	12.18.16
10000257	150-039650 1-124-2	stone	C248 4B 1	2000	1036	11.8.16
10000218	150-039750 2-130-1	stone	C248 1C 1	2000	0	12.2.16
10000247	150-039750 2-130-1	stone	C248 2B 1	2762	2762	1.24.17
10000234	150-041850 2-113-1	stone	C248 5B 2	2000	352	12.5.16
10000789	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000791	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000792	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000793	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000795	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000800	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000802	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000803	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10000804	150-041750 3-217-8	stone	D2 4A 1	500	500	12.22.16
10004267	150-041850 3-215-8	stone	D1 2A 1	4000	1800	15.04.16
10000281	150-041850 3-215-8	stone	C257 3B 1	216	216	9.15.16
10000257	150-041850 3-215-8	stone	D1 4A 1	500	0	10.13.16

Set up

smlInventory can be adapted to suit any environment. The extensive setup system allows for self-customization for your facility.

The setup is stored globally so it only is done once. Scanner settings are stored locally so you can have different settings for each work station.

Database location, Serial scanner receive and transmit functions, Passwords, Permitted Operators, Database Maintenance, and Data-entry Templates can all be user set.

