

# Res.Q

Solution Brief



# Res.Q | QMS



## What Is Res.Q | QMS ?

RES.Q | QMS is a cloud-based quality management solution which helps you streamline quality inspection through a digital, interface-driven process. Providing you with 360° visibility into production quality across your factory floor. The solution leverages real-time analytics to eliminate reporting time lags, resolve quality issues faster, reduce wastage and help you improve your overall cut-to-ship ratio.

## Digitized Defect Capture

Capture defects through a totally configurable progressive defect capturing application.

## Custom Defect Templates

Create and store unique defect templates in both standard English language and local language against each product type or customer.

## Sketch Feature

Mark the location of the found defects on the application for a visual representation of defects.

## Operator Operation Mapping

Track the exact operation and operator of each defect.

## AQL Inspections

Facilitating digitized AQL inspections through the same tablet interface.

## 7.0 Inspections

Facilitating operator wise defect tracking through the same tablet device interface.

## Mobile Applications

A range of mobile applications giving real-time visibility on to shop-floor production, quality, efficiency, and other key insights for different stakeholders in the manufacturing value chain.

## Supervisor Application

A mobile application which gives the line supervisors real-time visibility of their designated production lines.

## Production Detail Application

A mobile application developed for the key stakeholders in the organization giving a complete helicopter view of the shop-floor performance.

## Additional Features

Res.Q|QMS also offers customers a range of additional features. These include,

- SMS alerts
- Corrective action tracking
- Report generation
- Buyer report generation

## Dashboards

### Line Wise Dashboards

A set of digital displays which shows the real-time performance of an entire production line giving complete transparency to the line wise performance and defect details.

### Analytical Dashboards

A set of analytical dashboards which are accessible through any device which gives a detailed representation of your performance through a range of data visualization tools.



## What is Res.Q | MI ?

Res.Q | MI is a cloud based machine management solution, built leveraging the technology of NFC, to provide management and maintenance teams with real-time insight to their entire machine management process. Res.Q|MI also helps make sense of the data captured by having it run through Res.Q's Integrated real-time analytical platform to provide decision makers with a range of interactive dashboards for instant, data-driven decision making.

## Paperless Machine Management

All machine related interactions and transactions will be done through an NFC based mobile application.

## Machine Transactions (Mobile Based)

Machine transactions are basic day to day interactions that various individuals/ teams do with multiple machines in order to fit the manufacturing needs of the company.

## Machine Movements

- Moving any machine from one location to another.
- Two types (internal & external transfers)
- External transfers are machines sent out of the factory to another factory (this requires an approval work-flow)

## Machine Look Up

Instantly get all details of a machine by tapping on its unique NFC ID .



## AD (Advice of Dispatch)

An AD is created when a set of machines are being sent out of the premises to an external location. This autogenerated Unique QR code-based document could be scanned at various security points to verify the set of machines in the shipment against the set of machines listed in the document. The same process could also be followed by the receiving party to ensure that the sharing of machines are validated by both ends.

## Machine Breakdowns

Mark broken down machine with the mobile app it self, which sends an instant notification to the mechanic notifying the details of the machine which is currently broken down.

## Job Card Pool

A function where the mechanic's employee ID could be scanned to the system and it displays all the tasks which he/she has to complete.

## Machine Verification

Verify that the right set of machines are in your production lines/ production areas or designated locations by simply tapping on the location ID and verifying every machine found in that location.

Once verified the system will alert you on the set of machines which are missing or new found in the scanned location.

## Machine Look Up

Have all details of the machine displayed through one centralized platform when scanned. The information will include,

- Machine details (fixed asset ID, PO details, rent details, insurance details and etc.)
- Machine break down details (individual break-downs and relevant downtime along with the mechanic details)
- Machine downtime (the total down time of the machine and the total number of breakdowns)
- Service history (with cost and responsible mechanic)
- Spare-part history (with cost and responsible mechanic)
- Machine movement history

## Proactive Maintenance

System generated calendar notifications on upcoming service operations, and the assigning of responsible mechanics to each upcoming service or breakdown operation through the web application.

## Spare-part Issuing

- Issue spare parts against a responsible mechanic against the relevant service or breakdown related job of that exact machine
- Certain spare parts may require a second level approval to be issued
- Spare part inventory management and notifications on re-orders when stocks deplete

## Needle Issuing

- Issue needles through the system against a machine and against an operator or supervisor to keep track of the needle usage.
- Needle inventory management and notifications on re-order quantities upon stock depletion.

## Reporting

Generate custom reports which gives you insight to different pain areas through the system's custom report generating functionality.

## SMS Alerts

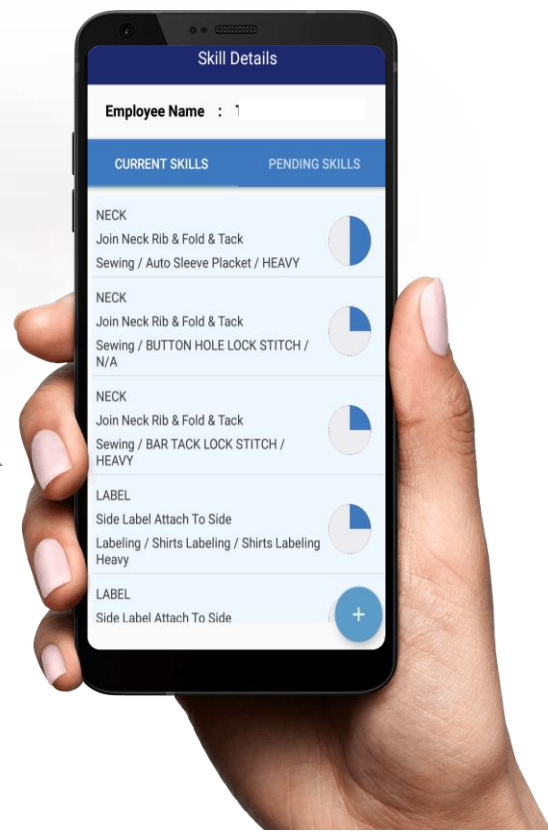
A set of configurable SMS alerts which are sent out to the assigned personnel in case of identified issues.

## Analytical Insights

Gain a detailed visual representation of the organization's asset management process and identify hidden costs and anomalies which could be immediately addressed through the system.

- Machine breakdowns
- Service management
- Machine utilization
- Machine down time
- Break down analysis
- Rented machine analysis





## What is Res.Q | SM ?

RES.Q | SM is a cloud-based skill management solution, built to provide management, HR and work study teams with real-time skill competencies of their biggest assets; machine operators.

With the use of the Res.Q | SM mobile application users could now upgrade skills, conduct capacity studies, record cycle times and monitor the line performance against a certain style in real-time.

## Integration With HR Systems

Get up to date employee information to the platform through the HR system integration.

Send selected details back to HR systems for pay role related functionalities .

- Employee skill grading
- Individual skill levels
- Employee skill based on machine & style wise performance tracking
- Detailed skill history
- Time study graph for each skill
- Update skill profile through one central screen

## Mobile Application-based Skill Evaluation

- Skill level updates
- Cycle time updates
- Skill profile review

## Secondary Approval For Skill Updates

Set up secondary approvals (optional) before adding skill updates to individual operator profiles.

## Skill Kiosk

Employees can get a detailed understanding of their skill competencies and request skill evaluations through Skill kiosks placed in the factory premises. Some additional functions performed through the skill kiosk,

- Leave requests
- Skill evaluations
- New skill additions
- View incentives achieved



# Res.Q | SL

## What is Res.Q|SL ?

Res.Q Smart line is an integrated line layout planning module, helping IE teams digitize the process of production line planning, line balancing and symbolic layout creating in a matter of minutes rather than hours.

Also through the integration of machine inventory and Skill matrix modules of Res.Q, Smart line is now able to help IE teams map the exact machine and operator for their, respective production lines for a much more precise & effective line planning, which could be done in a matter of minutes.

## Integrate With Method Study Systems

Acquire the necessary operation break down for a particular order or style, through any method study solution, manual database or maintain it within the Res.Q Smart Line module.

## Digitized line balancing

Work on finding your ideal line-balance by adjusting the “**actual manning**” level for each operation against the suggested system generated manning level.

## Auto-generated “Yamazumi chart”

Check your changes made by seeing the autogenerated yamazumi chart to find out the workstations that are not on par with the “**tackt-time**” and work on finding the right manning level to find your ideal balance.

## Set the expected line-efficiency

Adjust the line efficiency to create the line layout plan which could achieve the set efficiency.

## Create The Symbolic Layout

Create custom line layouts or work with auto-generated line layouts. Line layouts could be of **straight production lines**, **U shaped lines** or even **component lines** depending on the operating product type.

## Assign the right operator and machine

Assign the right set of operators and the set of machines through the system. (Res.Q |Smart line module works in sync with the Res.Q|Skill matrix and Res.Q|Machine inventory to identify the best operator and the right machine in the selected production line to assign to each workstation (operation) .

## Store line layout templates

Once a layout is created you could use it in future orders by making the necessary changes for a better performance.

## Identify bottle necks

Work on a mobile application-based cycle time calculation of each operation/workstation against the created layout, to identify workstations which perform above or below the SMV. These workstations will be highlighted in Res.Q Smart Line dashboards so that teams could take immediate corrective actions to achieve the desired performance.

## What is Res.Q|FI ?

Res.Q|FI is a fabric inspection module designed and developed to be used in factories to digitize the entire fabric quality inspection process (including shade and Shrinkage) .

The module follows the “4 point” method of inspection and caters to both 10% or 100% inspection based on the company’s preference.

An optional IoT component for this module makes the inspections even more simple by having the length of the fabric roll captured automatically.

### Roll ID Generation And System-based Storing Of Fabric Rolls.

Once the fabric arrives at the factory, create system generated unique fabric roll ID’s for each roll, against the supplier invoice and assign the location where it should be stored.

### Select The Method Of Inspection

Configure the system based on your inspection preferences of 10% inspection 100% or even a custom inspection percentage to best fit your style of production.

### Fabric Inspection

Scan the bar code or QR code-based roll ID and start a 4.0 point-based fabric inspection ,

- Digitized defect capture through tablet devices
- Create custom defect templates (for different suppliers or fabric types)
- IoT based automatic roll length capturing
- Length based defect capturing
- Automated Fabric roll gradings/ pass or fail function
- Average roll width calculation

### Shade Inspection

- Create custom shade groups
- Scan roll ID and enter the relevant shade from the respective shade group display
- Comment function for any additional details

### Shrinkage Inspection

Enter the length and width variation through the same interface.

### Roll Look Up

Scan a roll ID to view a full report of the selected roll.

- Width details
- Quoted vs actual length
- Defects against length
- Quality inspection points
- Given grading

### Second Level Approval

Assign a secondary approval process for sub-par fabric rolls. Approval process should be completed, before these rolls could be available for the use in general production.

### Automated Supplier Evaluation

Understand supplier related issues through Res.Q FI's supplier evaluation reports.

### Custom Analytical Dashboards

A Custom set of dashboards & printable reports giving detailed insight on inspected fabric, suppliers and defects.



## What is Res.Q | MES ?

RES.Q | MES is a production tracking solution capable of piece wise tracking or bundle wise tracking. Res.Q | MES also operates in multiple tracking technologies (Barcode, QR code & RFID) , helping you choose the technology that best fits your unique production process.

### Create Bundles At Any Point

- Bundle type change
- Facilitate all types of bundles ranging from, Cutting bundle (initial bundle) Re-work bundle

### Piece Wise Or Bundle Wise Tracking Functionality

Configure the system accordingly based on your production tracking requirements to track piece wise/ garment wise or bundle wise tracking

### Dynamic Production Route

Facilitating all unique production route related operations including,

- Sequential operations
- Parallel operations
- Sub-contact operations

### Attribute Tracking

Track key attributes of sales orders

- Color
- Buyer PO
- Size
- Shrinkage

### Sales Route Templates

Create and store sales route templates which users could use in future similar production orders without having to create a sales route again from the start.

### Controlled Security

Create unique user-based access mechanisms to ensure data accuracy and avoid the manipulation of data .

### Component Tracking

Track component bundles and the use of each component in different production related operations. Gain complete visibility and control of the bundle's production process.

### Map Operations And Tracking Technologies

Identify and map the unique technology used in each operational process,

- Cutting > Sewing > printing – Barcode based
- Washing – RFID based

### Analytical Dashboards

Set up WIP dashboards and analytical dashboards in the shop-floor to display crucial information to production teams across the shop-floor.



# GET IN TOUCH

E- [sajid.sheriff@resq.cloud](mailto:sajid.sheriff@resq.cloud)  
T- +94 76 550 1264  
W- [www.resq.cloud](http://www.resq.cloud)

