



# inventrax

Traceability Assured



**FalconSFT**   
Shop Floor Tracker

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**FalconSFT** is a shop floor tracking software that allows a manufacturing unit to have control on shop floor activities, capture process data and monitor real-time production status. This tool validates material and process flow, captures quality parameters and hence make a production control more efficient.

**FalconSFT** can also be interpreted as a Manufacturing Execution System (MES) that helps resource planning and optimization based on real-time data.

### Target Industry

**FalconSFT** primarily focuses on Aviation & Defence, Electronics & Electrical Assembly, Automobile, Pharma & Surgical, Medical Device Manufacturing Industries

### Key Benefits

- Effective management and real-time visibility of shop floor activities
- Increase yield along with product quality
- Improve operator and machinery efficiencies
- Efficient Non-Conformance Management
- Electronically captures and tracks detailed engineering and operational data
- Eliminate wastages throughout production, checks for – machine, material, worker, tool availability
- Paperless shop floor and material dispatch management
- Error free auto data capture through barcode , RFID and SCADA systems
- Bird's eye view of overall production with Dashboards, KPI reporting
- Provides historical data analysis and reporting for product and process improvements
- Rapid, accurate data collection enables error free data collection and access to real-time business intelligence across all areas of production

### Significant Features

#### ✓ Order Management

- Initiates Sales/Work Order OR Imports from ERP
- Initiates a Job/Prod. Order OR Imports from ERP
- Engineering Change Order (ECO) management
- Automatically checks the material availability in Store, alerts SCM team to fulfill the deficiencies and validates the production plan
- Validates production schedule based on workstation and operator availability

#### ✓ Workstation Console

- Role, workstation, operation, activity based functionality
- Operator Workstation / Supervisor Workstation Consoles
- View job orders in work queue, operation instructions, material pick list for the assigned operation, job order status
- Capture operators activity start and end date time

- Validates production order release based on tool availability, its calibration status
- View job order queues, prioritize the queues, and update job order status automatically after the required quantities of finished goods has been completed and shipped back to the stores
- Supports Back flush, Production return order
- Supports NC material request (Internal) orders for any Job order

- Receive and validate raw material using ADC equipment
- Tracking of Work In-Process, material pending for consumption, deficiency quantities due to non-conformity/scraped output
- Record quality results at operation/activity level
- Move rejected assemblies to other operation sequence for rework
- Assign lot and serial numbers during operation and work order completion

#### ✓ **Routing**

- Create routing and sequentially list the operations/activities, configure workstations, serial no. requirement and activity cycle time at each activity
- Configure routing for in-house manufacturing and sub-contracting
- Configure Engineering BOM, assign components with UoM and quantities to activities
- Configure QC plans at activity level

#### ✓ **Bill of Material**

- Create Bill of Material (BOM), configure Material Type, UoM and Quantities
- Supports multi-level/ structured BOM
- Support Phantom BOM creation

#### ✓ **Workstation Type/Workstation**

##### **Workstation Type**

- Create workstation type based on the operation activity

##### **Workstation**

- Create workstation, configure resource type, average working periods and work type

#### ✓ **Work in Process Tracking**

##### **Real Time Production Reporting**

- Dashboards with Real time production reporting
- Key performance index (KPI) in graphical notations
- Workstation performance reports
- Operator performance reports
- Route Process Report
- Inspection reports at operation level

- Configure workstation with capacity and costing information to provide accurate reporting at workstation level
- Configure operator and shift information to authorize operation recording

- Non conformity reports
- Certificate of Conformity (CoC) printing
- Work In process(WIP) reports

#### ✓ **Data Acquisition**

- Data capturing at collection points with auto data capturing equipment such as barcode , RFID and SCADA systems
- Auto barcode/RF tag printing at process completion
- Touch screen based interaction at workstations

#### ✓ **Integration**

- Integration with Standard ERP's such as SAP, JD Edwards, MS Dynamics etc.
- Real time event subscription based communication in message queues(MQ) with ERP's
- Allows Integration with 3<sup>rd</sup> party software system in open XML standards

#### ✓ **Implementation Infrastructure**

- Microsoft Windows workstations, Windows Servers for application hosting, MS SQL Server for database, Active Directory (AD) for resource authentication and authorization, Windows Communication Foundation (WCF) based SOA, Windows CE/Mobile based Handheld Scanners, Industry Standard ZPL support barcode/ RF printers