Shop Floor to Top Floor
Software drives efficiency gains

MESH Automation specializes in gathering, analyzing and visualizing data. With expertise in all stages of process control – PLC programming, instrument connectivity, operations HMI design, data analysis and high level data visualizations – MESH Automation can consolidate and extract value from data to optimize your operation.

WLAN

ENTERPRISE

Data Collection History

services repository

ERP Level
Enterprise resources

IP 183.77.19.0

PLANT

• MES • SPC
• OEE • Recipe
• TEEP • Track & Trace

MES Level
Manufacturing Execution System

SHOP FLOOR

• HMI
• SCADA

Control Level
Machine controllers

COMPONENT

• IIoT

processes   maintenance   logistics   manufacturing   power

Device Level
Sensor-Actuator Machine

As you move your company towards the Industrial Internet of Things (IIoT) or Industry 4.0, MESH can provide, develop and execute software and hardware solutions from the machine level to the ERP level.

MESH develops software tools to collect, v

Top managers use software to drive efficiency and quality gains

Manage your manufacturing processes by integrating the critical data from your shop floor with enterprise IT and other manufacturing applications. MESH can help you develop a data collection solution to fit each of your manufacturing processes.

- Data Logger
- Transaction Manager
- Database
- Report Generator
- Track and Trace
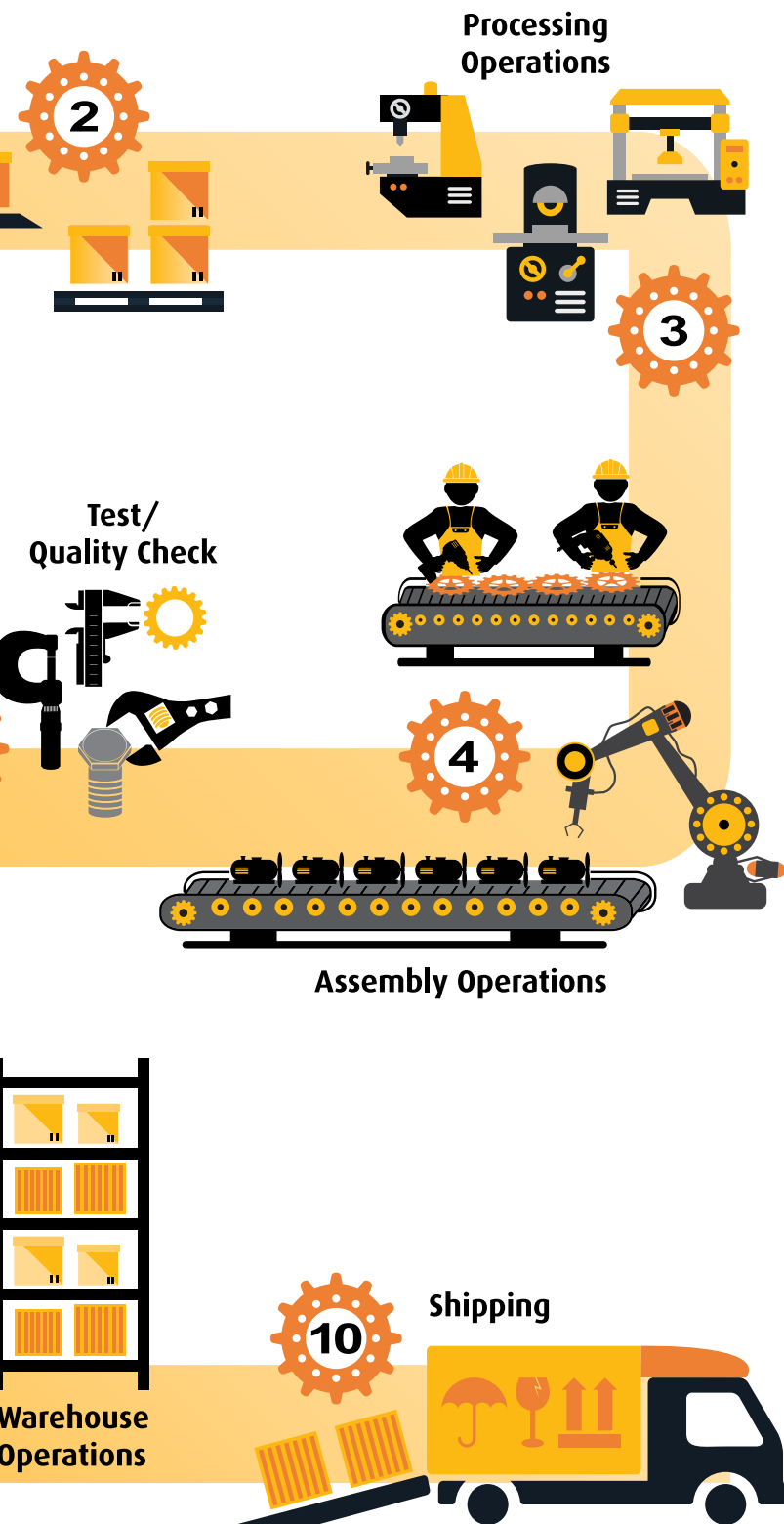- IIoT (Industrial Internet of Things)

Visualize and gain insight into your production operations

Before you can optimize production, you need to understand where efficiencies can be gained in your plant. To do this, you need a clear view across entire lines and production processes. MESH has developed many HMI and SCADA software solutions for monitoring and controlling machine level and multi-process applications. We can help you design and implement a robust and reliable software package that scales from a stand-alone HMI system to a distributed visualization solution.

- HMI
- SCADA

Receiving Materials

1

Raw Materials

Re-work

5

6

7

Final Quality Check

8

Packaging

9

isualize, analyze and optimize your data.

Processing Operations

2

3

Test/ Quality Check

4

Assembly Operations

10

Shipping

Warehouse Operations

Analyze sources of inefficiencies, poor quality or downtime

Understand line and equipment performance history by utilizing powerful data analytics. Empower managers to gain new insights into events that impact line performance. MESH can help you develop a software solution to analyze your production data to visualize performance information and develop strategies to increase machine efficiency, line capacity and quality.

- OEE (Overall Equipment Effectiveness)
- TEEP (Total Effective Equipment Productivity)
- SPC (Statistical Process Control)

Optimize production operations

Keeping equipment operating at peak performance gives you the technology edge you need to improve margins, cut costs and compete at a higher level. MESH can help you take a proactive approach to critical business and manufacturing issues by evaluating mission critical data and turning it into actions and advisories BEFORE you need it.

- Scheduling and Planning
- Recipe Management
- Real-time Trends
- KPI Tracking

MESH
automation

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