

### Automotive Component Manufacture

Focus: Reduce Non-Value Waste - Improve Process.  
Benefits: Improved Product Quality - Improved Productivity - Reduced Costs



<u>Area of Improvement</u>	<u>Savings</u>
Labour Cost Reduction	£412,000
Scrap Write Off Improvement	£210,000
Energy Management Saving	£18,000
<b>Cost Savings per year</b>	<b>£640,000</b>

#### The Company

The company manufacture automotive parts for a number of prestigious vehicle manufacturers. The management felt an independent view could improve their process prior to an NPI project. And could also improve their assembly build methods and reduce business costs.

#### Process Of Change

- Stage 1 Investigate present process, tooling and WIP storage
- Stage 2 Design factory layout and re-engineer tooling facility
- Stage 3 Simulate and test - implement new process layout
- Stage 4 Create and implement procedures and controls

#### Project Actions

- Investigate and analyse operator work activities
- Design Assembly Area incorporating Single Piece Flow
- Implement Capacity Planning Schedule to reduce stock
- Implement Work In Progress Racks to 'min / max' levels
- Implement Tool storage facility and rack numbering
- Implement Tool catalogue and tool numbering
- Implement Standard Operation Procedures
- Implement Material Kanban line feed
- Implement Visual Management
- Implement TPM

#### **Financial Benefits From:**

- Reduction in Scrap
- Reduction in Rejects
- Introduction of Quality Standards
- Introduction of Single-Piece-Flow
- Introduction of Tooling Management
- Manning Re-alignment

#### **Supported by:**

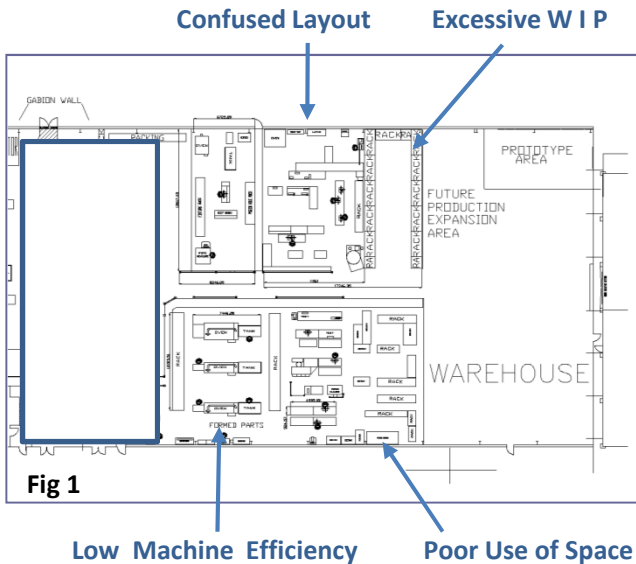
- Lean, 5S,
- Flow Charting
- Process Mapping
- Cycle Time Measurement
- Poka Yoke Quality Measures
- Project Capital Budgeting

#### **Atherton Management Services Ltd**

Have been helping people in business improve their business for over 30 years.  
We specialise in bespoke factory floor layout design and process improvement.

# Lean Implementation

## A PROCESS WORKING AT 52% EFFICIENCY



## PRE-CHANGE PROCESS

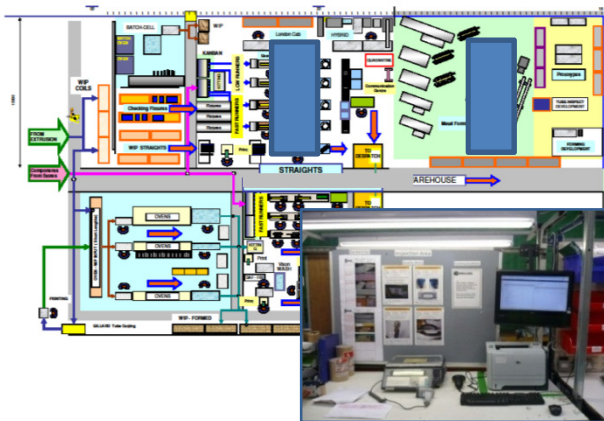
Fig 1. A process located in the wrong place. Arranged in a jumbled layout. Staffed with unskilled people cannot perform efficiently or effectively... Typically 50%

### ISSUES:-

- Excessive **Work In Progress**
- Tooling in poor condition
- Too much product scrap
- Too much poor quality product
- Machines not functioning up to speed
- Procedures and Drawings not up-to date

## AN EFFICIENT WORKING PROCESS

### Balanced Flow-line



## FUTURE STATE IMPROVEMENTS

Fig 2. Innovation and creativity can achieve a layout that has been designed with a plan in mind, that will produce goods when the customer wants them and to the right standard of manufacture and at the right price to make profit...

### BENEFITS:-

- Material feed to the line
- Minimal **Work In Progress**
- Balanced assembly flow-lines
- Standard Operation Procedures
- Drawings and procedures up to date
- Quality of product considerably improved.

For Further Information Please Phone or E-Mail

### **Atherton Management Services Ltd can help with :-**

Bespoke Factory Floor Layout Design - Process Improvement  
Warehouse Layouts - Inventory & Line Feed Organisation  
Cycle Time Measurement - Product Costing - Budgeting  
Operations Organisation - Written Procedures...

**We can help:** Reduce Costs - Improve Cash Flow ...  
Improve Productivity - Improve Profits...

### **Atherton Management Services Ltd**

Hindley Business Centre  
Platt Lane  
Hindley  
WIGAN WN2 3PA

Tel 01942 522 333  
Uk 07970 333 466

[www.leanline.co.uk](http://www.leanline.co.uk)  
info@leanline.co.uk

