

# **DESIGN SYSTEMS, INC.**

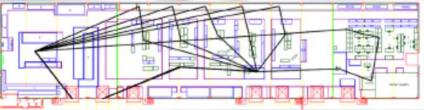
**Manufacturing Engineering & Consulting** 

#### CUSTOMER

### **AEROSPACE AND MASS TRANS**

#### PART MANUFACTURER

Original travel route distance: 1,696 feet



DSI optimized route distance: 922 feet



### **OVERVIEW**

Our Process Optimization Team was engaged as a partner and extension to the customer team to identify and improve operations through facility consolidations, manufacturing process and material flow improvements. **PROJECT ACHIEVEMENTS** 

1. Redesigned production layouts to optimize space utilization

2. Perform dock analysis to determine optimal receiving dock locations

3. Achieved centralization of production including consolidation of 3 facilities

4. Incorporated sub-assembly cells for insourced work

5. Optimized production using lean principles to increase throughput

## **DSIDSC.COM**

### **BOTTOM-LINE RESULTS:**

#### 41% EFFICIENCY GAIN IN MATERIAL FLOW

Design Systems provided solution to improve material flow routes, reducing the distance and time required for material delivery to assembly cell from warehouse

### 43% IMPROVEMENT IN PRODUCTION

Our team right sized the manufacturing areas, improving space utilization, lineside presentation and productivity by eliminating nonvalue added work.

### 16% INCREASE IN ASSEMBLY

DSI redesigned the workstations to allow for one piece flow production .