



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

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 non-value added work.

16% INCREASE IN ASSEMBLY

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