

## CUSTOMER

# Fiat Chrysler Automobiles Belvidere Assembly Plant

## PROJECT

# New Model Material Flow Launch Support

## OVERVIEW

Our Process Optimization Team was engaged at the FCA Bellvidere Assembly Plant supporting the launch of the Jeep Cherokee. The new model bought additional content that drove 30,000 sq. ft. of floor space requirements at the 3rd Party Logistics (3PL) Provider. Working with the 3PL and the plant, the DSI team created a solution that opened up the required space at the 3PL by insourcing forty-five body shop parts from the logistics center and reduced plant logistics costs by \$2.1 million. The DSI Team developed a plan to redeploy the current material handling manpower in the Body Shop resulting in no increase in head count.

## THE DSI ADVANTAGE

- Utilized current state understanding of material handling processes to create a solution that worked for the 3PL and the assembly plant.
- Worked with external logistics to optimize inbound shipping lanes and level the plant's receiving schedule.
- Designed the material storage layout and the fork free delivery processes.
- Rebalanced the material handling manpower and created documents detailing the delivery process for the plant operators and supervisors.
- The team supported the entire process from concept through implementation on the Body Shop floor including managing the installation contractors.



## BOTTOM-LINE RESULTS:

### \$2.1 MILLION COST SAVINGS

**DSI provided a solution to insource 45 Body Shop parts from the 3rd Party Logistics Provider .**

### 30,000 SQ. FT. OF SPACE MADE AVAILABLE AT THE 3PL

**Our team redesigned the manufacturing areas improving how the space is utilized for material presentation and workstation layouts.**

### NO IMPACT TO BODY SHOP MANPOWER

**We rebalanced the existing Body Shop material handling manpower to absorb the labor required to handle the insource parts .**

