

# Case Study – Heavy Equipment Mfg.

## ■ Purpose/Scope:

- A transmission manufacturer with multiple assembly lines required a Value Stream Transformation project to accommodate future volume forecast for their products.
- The goal was to consolidate two product assembly lines to one and reduce the number of direct operators, reduce assembly footprint and increase throughput.

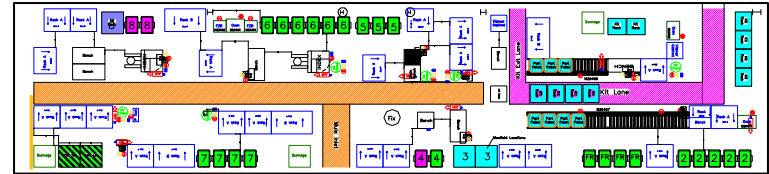
## ■ Results:

- Solutions Engineering team worked with the plant ME's and rebalanced the line utilizing Proplanner software. The result was a new line with a **26.6% reduction** in direct labor, an **80% reduction** in manufacturing footprint and a **35% increase** in throughput.

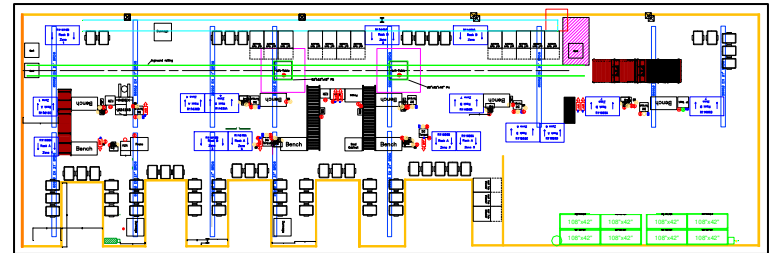
## ■ Recommendations/Benefits:

- The new line incorporated a carrousel line with operators on both sides. Operator footprint was reduced significantly by incorporating **kitting of 97%** of the production parts.
- The design of this new line allows for **flexible manufacturing**. Additional products can be added to this line without major capital investment requirements.
- It provides a **significant improvement in first time pass** as operators must consume all kitted parts prior to next operation.

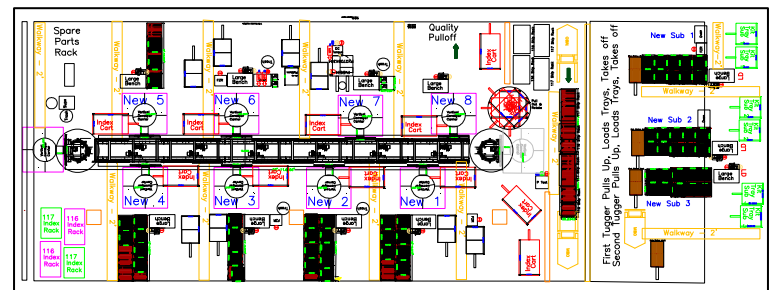
Line 1:



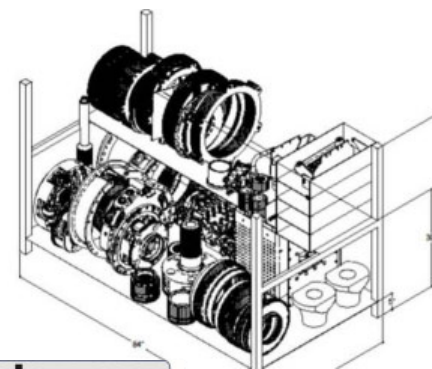
Line 2:



New Line:



Large Parts Kit Rack



Small Parts Kit Tote

