CASE STUDY

DECEMBER 2016

AIR POWER INC.

LOW HEADROOM–LOW PICKUP SOLUTION FOR TEXTILE WINDING APPLICATION

Customer Need

Customer installed new winders in a low headroom area which presented final product at a low pickup position. Rolls weighing 100lbs were required to be lifted from horizontal position, and placed into vertical stacked position onto pallet. Existing process required manual handling.

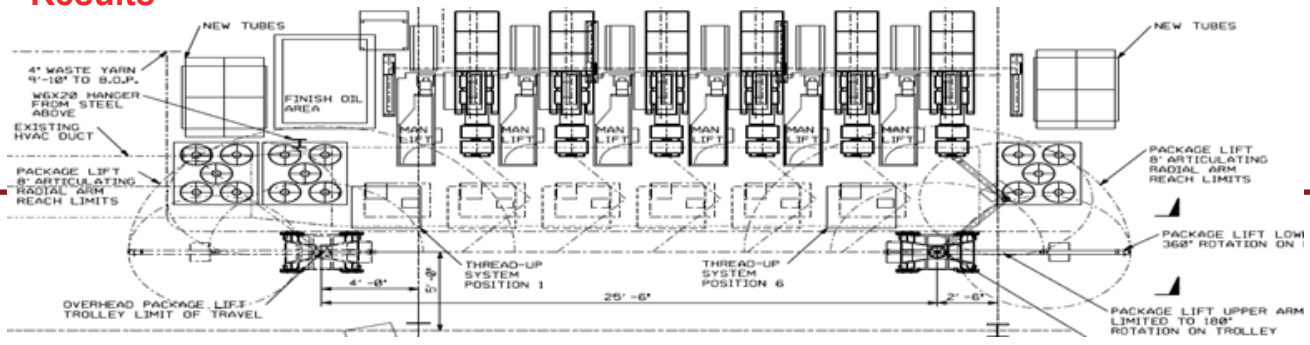
Area of equipment installation presented a restricted, low headroom area requiring the need to reach under, and around additional OEM equipment required for the winding process.

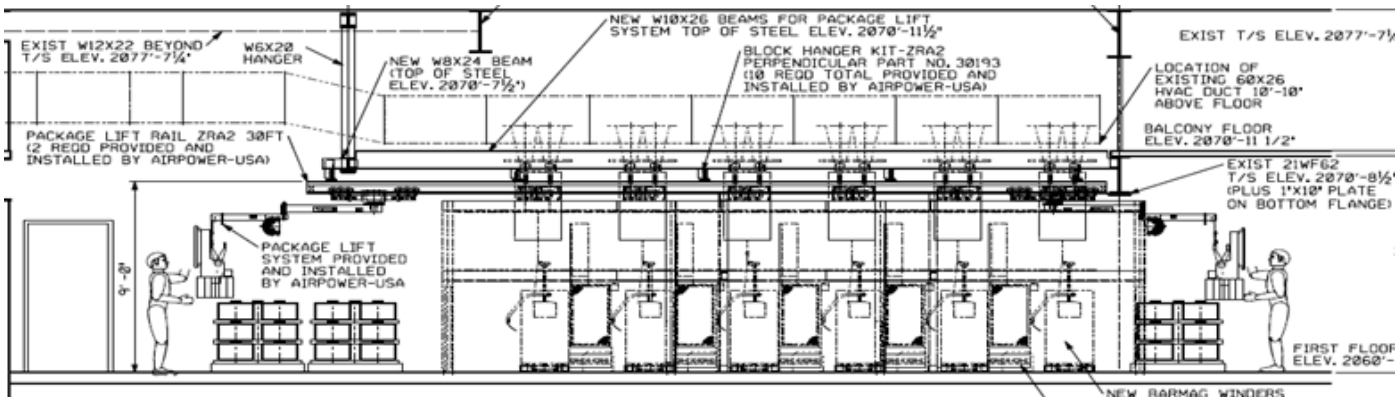
Air Power Solution

Upon evaluation of process, and area requirements, a dual extruded aluminum runway, with low profile carriage and custom adjustable stops were specified, and installed to provide coverage for the pickup and placement of rolls across a bank of six(6) winding machines. A custom steel frame was fabricated and installed in order to properly mount/position both runways for roll handler, and aspirator lines for the winding equipment. Due to area restrictions, an articulating arm with integrated air balancer was mounted to allow for reach under, and around process equipment, to allow for pickup and placement of the finished product.

A Dotec RH90Z45 Roll Handler (for low pickup) was provided which allows ergonomic pickup/ placement of rolls to eliminate bending and manual handling by the operators of the finished product.

Results





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