



John Middleton Cigar Plant, King of Prussia, Pennsylvania

Being owned by Altria, John Middleton Cigar Plant is a leading manufacturer and marketer of pipe tobacco and cigars.

Falk PLI was contracted to perform laser scans of the Plant's production and office areas in order to generate a multifaceted, 3D Revit model of the building structure, HVAC, and select piping systems. The intention behind the model was to be able to deliver an intelligent, dynamic model, that could be used for documentation and renovation purposes. This model was delivered such that 2D prints would be easily generated from simple sections and projections. The facility is a one story 60,000 square foot facility constructed primarily with exterior load bearing masonry walls, interior structural steel columns and girders, and standard k-series roof joists. The scanner was able to pick up any exposed structure for modeling, this includes being able to place the scanner into the drop down ceiling for modeling of otherwise "hidden" elements. 253 scans were required of the building, roof, exterior, offices, production facility, storage units and more. The scans were registered using cyclone to create the point cloud that would later be used for modeling. Blueprints were not required in the generation of this model. In fact, blueprints were later generated from this model to meet the documentation and future design needs of the client.

