



Honeywell Story Image

**“I’d estimate that we are working 50% faster thanks to AutoCAD-based CADWorx software. It has shortened the cycle time and reduced engineering design time.”**

**“CADWorx Plant Design Suite improved not only our efficiency but the efficiency of our partners as well.”**

## **Honeywell chooses CADWorx to build intelligence and eliminate rework**

### **Honeywell drives industry performance**

Honeywell, Corp. is one of the world’s largest suppliers of premium quality nylon. Nylon’s abrasion-resistance, dye ability, strength-to-weight characteristics and texturing performance make it the fiber of choice for many consumer, industrial, and military applications. The Hopewell Plant near Virginia Beach, VA, is one of Honeywell’s biggest plants with assets of approximately \$1.5 billion. Constructed in the 1920s, the plant produces specialized chemicals such as LACTAN, which adds strength and durability to nylon.

### **Converting from 2D drawings into 3D model reduces errors**

Honeywell’s reliance on 2D drawings led to multiple errors, delays and miscommunications between those who design the drawings and those who implement the changes in them. So, Honeywell Project Engineer, Michael Chiao, along with his team, took on a challenge to redesign the plant and optimize it to operate successfully in the 21st century. Following a review of the options, they chose CADWorx Plant Design Suite, an AutoCAD®-based 3D piping program. “Because CADWorx is based on AutoCAD, we felt pretty confident that we could make this work,” explains Chiao.

### **Improved plant design and visualization**

CADWorx Plant Design Suite helped Honeywell team achieve their main goals: improve plant visualization, build as much intelligence as possible into the plant model, and make the necessary design changes that will increase plant efficiency and therefore save the company money. “By allowing everyone to see what’s happening in 3D, CADWorx has removed a lot of ambiguity from our plant design efforts and helped us avoid a tremendous amount of rework,” adds Chiao.

The CADWorx package improved not only Honeywell’s efficiency but also Honeywell’s interaction with stake-holders. It allowed Honeywell to easily interpret and present images in 3D during the required public and regulatory hearings. Honeywell also makes designs available through the document management system, delivering more accessible, reliable and understandable design information to more people than ever before.

### **Project time reduced by 50% eliminating rework**

“We had one major project that was supposed to take us nine to 12 months to complete. Using CADWorx, we had it all done in just 6 months,” says Chiao. “The name of the game is making money and doing things faster. Perhaps the greatest hidden benefit is the amount of rework that you never have to do because you get your designs right the first time.”

#### **PRODUCT INDEX**

**CADWorx® Plant Professional**

#### **INDUSTRIES SERVED**

- Petrochemical
- Chemical

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