

## **Rocket Factory**

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### **Challenge**

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An aerospace firm's challenge was to greatly increase the production rate of expendable launch vehicles at a reduced cost.

The construction firm's challenge was to design and build one of the largest manufacturing facilities in the world, while the emerging manufacturing process is still being defined.

CNA's challenge was to integrate the manufacturing process with material handling and building design.

### **Response**

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CNA assisted in the development of manufacturing process flows and the design, specification, and procurement of equipment. CNA provided technical support, oversight to the construction company and the aerospace firm through the plant start-up process.

### **Results**

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The early teaming of CNA with the construction company and the aerospace firm resulted in the highly successful installation of complex material handling systems, even while the manufacturing process design evolved, and the facility design criteria was modified. The combined facility, material handling and process control system will help the aerospace manufacturer achieve greatly increased production.

The factory moves rocket manufacturing from low rate to high volume with flexible production, a world first for space vehicles.