



**PENTALIFT EQUIPMENT CORPORATION**

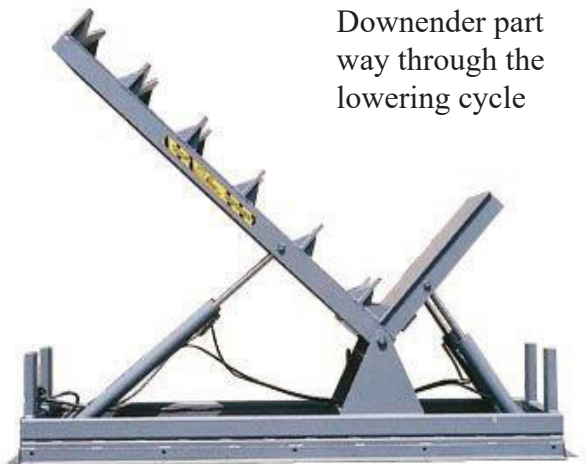
## **Engineered For Safety**

### **Application Designed: 25,000 lbs. Downender**

A manufacturer of specialty alloys for the Aero Space industry contacted Pentalift once again looking for assistance handling ingots. The alloy ingots are poured vertically into a mold and once cooled they are removed by an overhead crane. With the ingot in the vertical position it is placed on the downender and secured. The ingot is then tilted downwards 90 degrees into the horizontal position, removed by an overhead crane and prepared for machining. To maintain stability the longer section of the downender platform has 6 V grooves that are designed to accommodate 17" to 24" diameter ingots. After discussions it was decided to proceed with a platform size of 36" x 36" and have the longer section of the downender manufactured to 135" long. This customer is a multiple user of Pentalift downenders; all applications have been slightly different. This downender has a low height of 55" and is manufactured to safely lower a 25,000 lb load. This downender is equipped with double acting cylinders complete with counter balanced valves. These are hard plumbed to the cylinders to prevent load runaway when tilting or from hose failure. To achieve the cycle time that the customer required the downender is equipped with a 460/3/60 10 HP power unit.



Downender in lowered position



Downender part way through the lowering cycle

## **PENTALIFT EQUIPMENT CORPORATION**

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