



A Division of B&D Industrial

METAL FABRICATION INDUSTRY

AN EFFICIENT & SEAMLESS SPINDLE SOLUTION

CUSTOMER PROFILE:

A large machining company

THE PROBLEM

The customer needed to replace an older DC drive with a modern upgrade for the facility's key turbine blade machine center. The original tool changer was inefficient and lacked proper positional accuracy. One of the major inefficiencies was that the automated orientation of the tool changer was unidirectional.

THE SOLUTION

B&D Technologies' Applications Engineering Group (AEG) installed an ABB E180 drive with standard DTC and custom positioning firmware. This allowed the team to program an orientation program based on the current position of the rotor in relation to the tool changing home position. DTC technology directly controls motor flux and torque, which results in greater accuracy by reacting to load changes significantly faster than PWM drives on the market today. This application enables the drive to choose the shortest path to the home position, enhancing efficiency, improving cycle time and reducing downtime by eliminating inaccuracy.



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