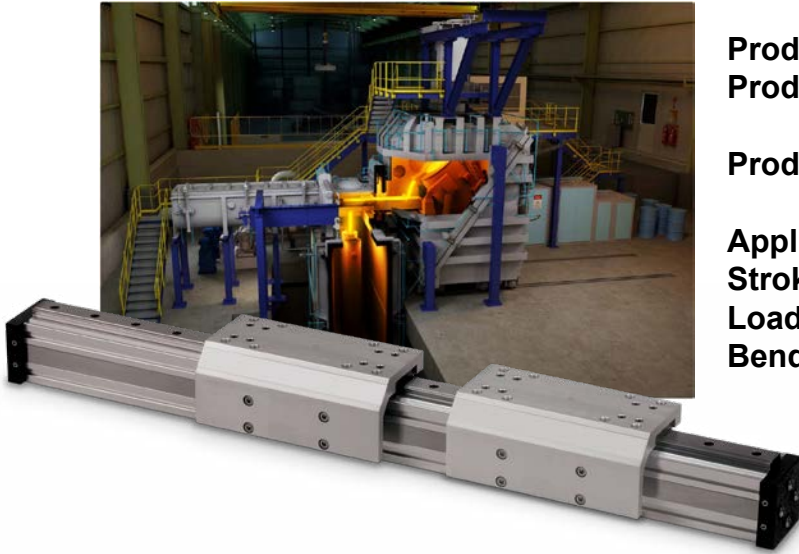


APPLICATION SOLUTION: Vacuum Induction Furnace



Product Family: Electric
Product Used: MXE63P Electric
Rodless Actuator
Product Type: Standard

Application Requirements:
Stroke: 80 in (2032 mm)
Load: 2,500 lb (1,134 kg)
Bending Moment: Heavy offset load

Application Description:

Using vacuum induction melting to heat treat and refine ingot material/chemistry for use in a variety of different molds

Challenge:

Replace a chain drive system to move the ingot material into position for the vacuum induction furnace. The ingot/canister is located 24 in (610 mm) away from actuator creating a high moment load. Heat from the melting process is a threat to operators and the equipment. Workers are required to wear protective clothing. The vacuum induction furnace is located inside a tunnel to help protect workers and disperse the extreme heat.

Tolomatic Solution:

Tolomatic provided an MXE63P Electric Rodless Actuator with dual carriers to accommodate the high moment load of the ingot/canister. Customer-supplied motors were fitted (through Tolomatic's Your Motor Here program) to the actuators. This allowed the customer to easily integrate with the existing programming and reliably move the ingot/canister assembly.

Customer Benefit:

- Actuators reliably position and hold the offset load throughout the hour long processing time
- Improved process reliability with continuous control provided by electric actuators
- Ergonomic benefits and increased operator safety
- Customer could use preferred motors and existing programs