

Date: 2006

Type: Horizontal

Application: Welding

Serapid Chain Type: 60DGS

Project Description: A welding automation company was looking for a compact alternative to position a gauge box for holding four plates to be welded together to make a telescoping crane boom. The new SERAPID system reduced the length from 100 feet to 36 feet.

Key Considerations:

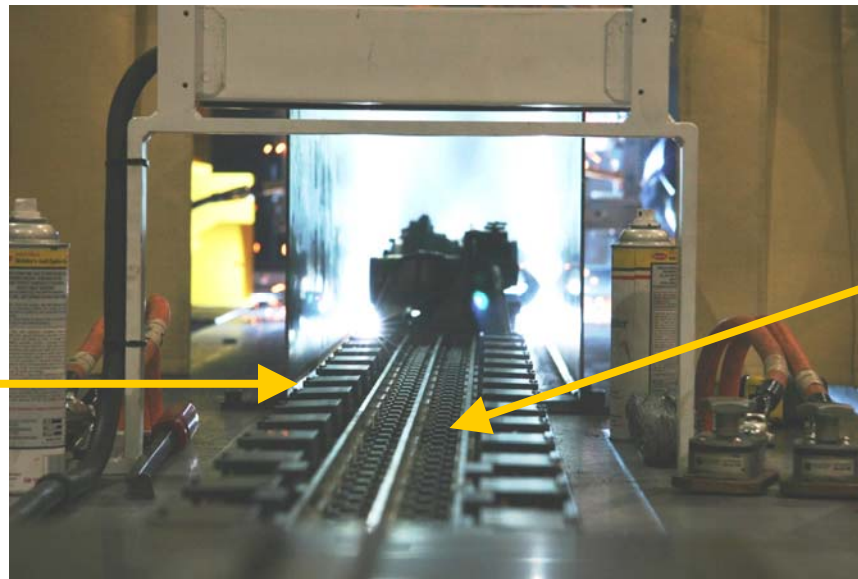
- Harsh Environment: Chain is constantly exposed to weld spatter and smoke.
- The weld is performed while the system is pushed out 17 feet, with a frequency of once per hour, every hour, six days per week.

System Specifics:

SERAPID provided the customer two Rigid Chain Push/Pull Systems:

- System 1: Guides the gauge box. Equipped with special oversized rollers and side roller brackets. A specially machined housing accommodates the oversized rollers.
- System 2: Also has oversize rollers, gripper plates, as well as, pins to attach the electrical hose carrier plates. This system includes a special-machined zero-degree housing for a straight through chain drive.

Special grippers on the sides of the chain guide the electrical hoses and cable attachments.



SERAPID Rigid Chain system guides the weld robot.