Barton Malow Company contacted our representative, Rigging Gear Sales, Inc., about adding another hydraulic gantry system to their rigging fleet to meet the demands of their upcoming projects. Barton Malow had a large IHI press to install, with several components outside the current capabilities of their 1989 Lift Systems Model 4800. Both lift height and capacity of the 4800 alone was insufficient to meet the demands of that project. It was determined that the project could be completed if the 4800 could gain height, and if it could be synchronized to another 4 leg gantry system to achieve capacity demands.

**8 LEG SYNCHRONIZATION—THE CHALLENGE**

- Retrofit Barton Malow’s 1989 Model 4800 Hydraulic Gantry with the CARL Synchronized Control System
- Add 5’ of Height to Barton Malow’s 4800 with Universal Risers
- Select a Power Tower model to suit their current needs, and future goals
- Synchronize 8 gantry system legs to work in perfect unison, both lifting, and traveling
- Develop a modular way to synchronize all 8 legs, but to also allow for use as independent 4 leg gantry systems
- **Synchronize two machines of different vintages, capacities, operational speeds, operational characteristics, and strokes— all with 1 lever control!**
- **DEVELOPMENT AND COMPLETION IN 8 WEEKS!**

**8 LEG SYNCHRONIZATION—THE SCOPE**

Solving the 5’ additional height requirement was an easy solution. Barton Malow Company purchased a set of (4) Universal Risers for their 4800 equipped with integral drives. The second gantry model selected was a 34PT5400WT, but there were several changes needed to suit Barton Malow Company’s needs. The unit needed to be fitted with integral drives and the CARL Control System. Due the modular design of Lift Systems’ Gantries, making the changes was not a problem—all of the mounting brackets required, were already built into the machine! The optionals added were merely a plug an play chore.

Simultaneously, the Model 4800 came into the shop for retrofitting with the CARL Control System. Adding the Universal Risers was not a problem—they were a perfect fit from the start.

After 8 weeks, and a visit from Barton Malow Company’s representatives, the units headed straight to the jobsite.

By unleashing the power of the CARL Control System Technology in this application, Lift Systems has developed a patent pending synchronization method never before used, and in record time! Through this innovative process, we can now synchronize multiple gantry legs (2-16 gantry legs with minimal effort and with logic to expand to even more than 16 gantry legs), other types of jacks, mobile machines, forklifts, and cranes.
8 LEG SYNCRONIZATION—THE RESULTS

The setup as seen from the pit.

Press bed lifted off of the stands.

Model 4800 on 5’ Universal Risers.

Over the pit.

During the final lowering process, the bed remained within 100 thousandths of 1 inch of perfect level from end to end the entire time!

Jim Cubba and John Wozniak of Barton Malow Company.