



## Lift Technologies Product Development Lab Capabilities

The Product Development Lab at Lift Technologies was established to help develop and improve Lift Tek products, and is available as a resource to our customers. Our goal is to provide quick set-up and turnaround of realistic tests on fork lift masts and attachments. Automated test stands allow unattended cycle testing of high-endurance articles. A flexible attachment system allows a wide variety of equipment to be mounted.

### Current Equipment:

- 2400 sq. ft. enclosed test facility, with 50 foot ceiling and 5 ton crane
- 3 Mast stands, configurable for various mounting groups
- 1 Carriage stand, configurable for hook-type attachments
- Hydraulic pump systems with various capacities
- 3 sets of PLC/solenoid and manual/proportional multi-channel controls
- D/A system for up to 32 strain gage channels
- Laser plumb
- Weight blocks and hydraulic pistons for load simulation

### Upgrade in Q3 2012:

- Integrated dual-pump hydraulic supply
- External pump house
- New proportional PLC hydraulic control stations
- Mast stand capacity upgraded to 30,000 + lb.
- Additional transducers and data logging equipment

### Capabilities:

- Static deflection testing of masts up to 40' and 30,000 lb.
- Strain gaging of any structure, static or dynamic up to acoustic frequencies
- On-stand cycle testing of mast and carriage, up to four hydraulic channels
- On-stand cycle testing of carriages or other attachments
- On-vehicle rough terrain attachment testing
- Hydraulic flow rate (e.g. cut hose test) measurement
- General product evaluation and competitive benchmarking
- Visibility testing (ISO 3691)