

## Kraft Helps Design First Lift-A-Loft with 360-Degree Steering

With help from Kraft experts, Lift-A-Loft's new SPW16SPL scissor lift offers customers safer and more efficient results.



Lift-A-Loft SPW16SPL

Lift-A-Loft Corp. specializes in designing, engineering and customizing aerial lifts, including aerial work platforms, scissor and truck-mounted lifts. The company is widely known for producing the safest, most reliable and versatile aerial lifts for a variety of applications in industrial, airline, railroad and aerospace industries, among others. With help from Kraft experts, the company recently developed its first Lift-A-Loft SPW16SPL scissor lift that

provides omni-directional steering for more efficient operations.

### Challenge

To meet the needs of its customer with tight working parameters, Lift-A-Loft needed an off-the-shelf electric wheel drive package that allowed the vehicle to turn 360 degrees. The aircraft manufacturer required a lift that maneuvered smoothly around an aircraft to install large parts without actually hitting it. With time and resources limited for the project, Lift-A-Loft turned to Kraft for help.

### Solution

Kraft experts engineered custom software and implemented a standard drive package to steer and propel the electric scissor lift, including the controls, display, master controller, wheel drives and motor controller/inverters. Kraft also supplied custom wiring diagrams for the all-electric system.

### Results

Lift-A-Loft now offers an all-electric scissor lift with three drive modes for easy operation: standard forward-reverse drive, side-to-side crab drive and a 360-degree spin on its own axis. With just the flip of a switch, the SPW16 can effortlessly change steering modes and position easily in tight working parameters, improving safety and making operations easier and faster to accomplish.

## HIGHLIGHTS

### CLIENT NAME

Lift-A-Loft Corp.

### LOCATION

Muncie, IN

### PROFESSIONAL SERVICES

- Engineering Software Design
- Field Sales & Consulting
- Application Field Testing

### EQUIPMENT SPECIFIED

- Danfoss Plus+1 Master Controller
- Danfoss Expander Plus+1 I/O Module
- MIWD27 Drive Assembly
- Schwarzmüller MI01 Steer Motor Controller
- Schwarzmüller MI03 Traction Motor Controller
- Topcon/Wachendorf Display
- Single Action Joystick

### RESULTS

- All-electric drive scissor lift with omni-directional steering
- Easy and safe maneuverability with a flip of a switch
- Smoother, more efficient operation

### CLIENT QUOTE

"Kraft was instrumental, with their products and technical assistance, in the creation of a lift that left the customer delighted with its performance capabilities."

-Dale Shrout, Special Projects Manager