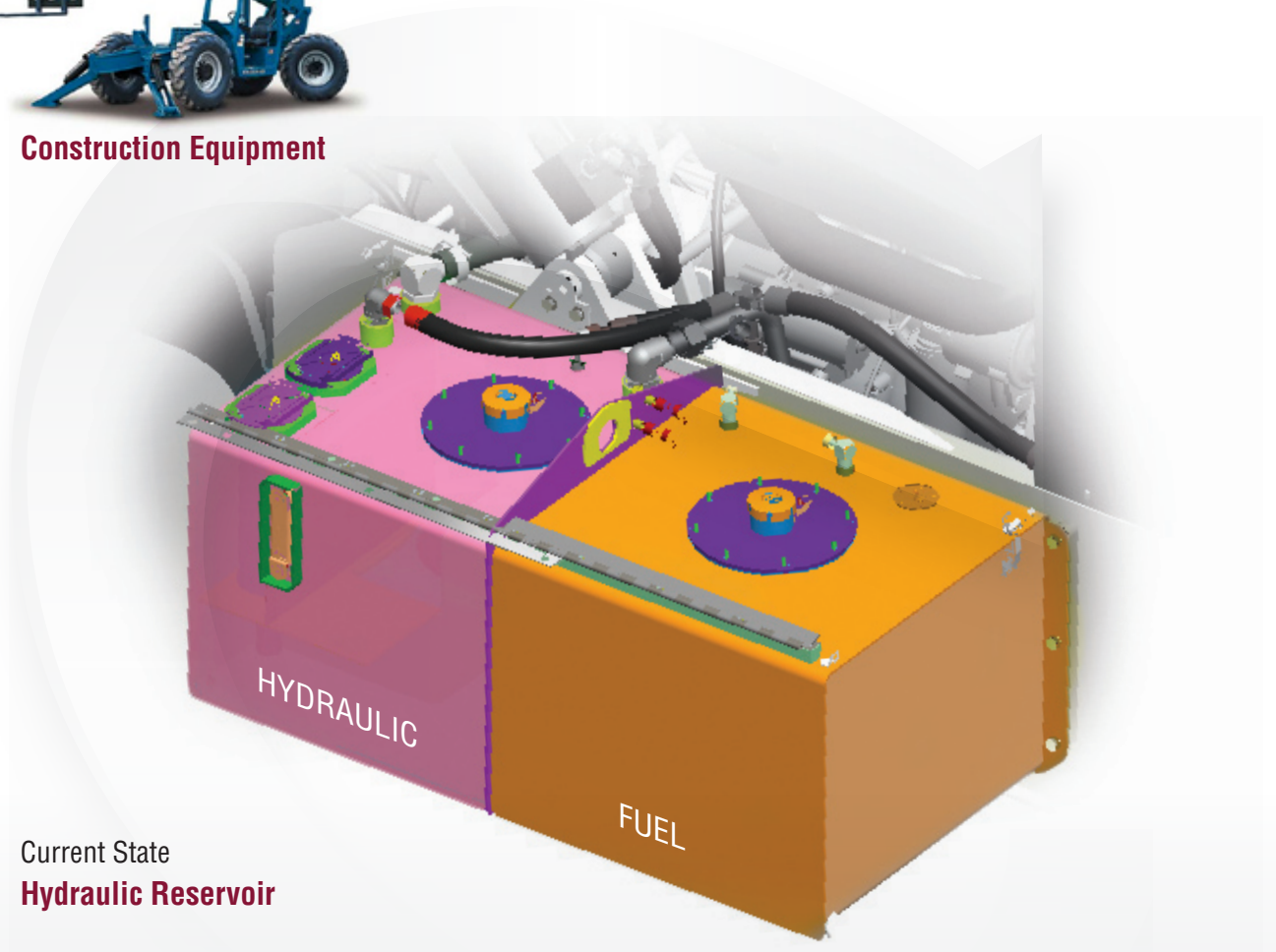




Construction Equipment



Current State  
**Hydraulic Reservoir**

**Challenge:**

A leading manufacturer of telescopic loading equipment requested redesign ideas to simplify the hydraulic tank and circuit to alleviate existing filtration problems, lengthy assembly time and vendor complexity.

**Solution:**

Utilizing the Helical Program, Helgesen redesigned the hydraulic sub-system to ensure proper filtration, gauge pressure and overall functionality. The following quantitative benefits were realized:

- ▶ Reduce Bill of Material size by 20%
- ▶ Reduce Material Combinations by 75%
- ▶ Reduce Press Brake Set-ups by 75%
- ▶ Reduce The Number of Vendors by 93%
- ▶ Overall Cost Reduction by 11%