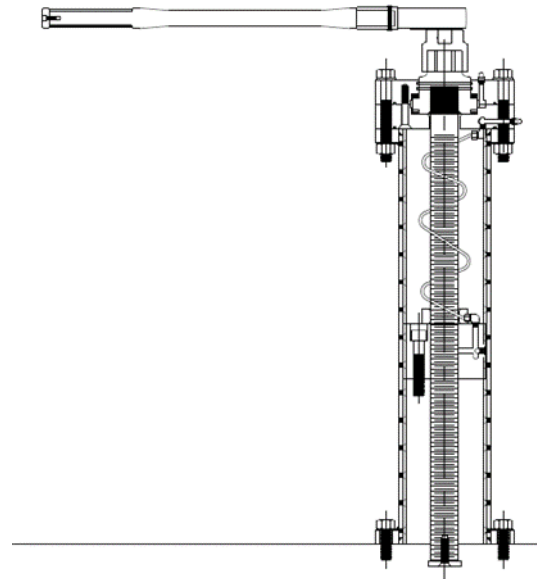


Quabbin designed and built 72 jack stands for Dangling Rope Marina in Kane County, Utah, managed by the National Park Service and part of the Lake Powell Glen Canyon National Recreation Area. Seasonal fluctuations in the water level have made it difficult for boats to use the dock in the summer. Quabbin worked with HDR to design jack stands to raise and lower the 900-foot-long dock by up to 24 inches to maintain the docks' proper height in relation to the water level.



Dangling Rope Marina, Lake Powell.

- The jack stand is a modified version of Quabbin's Q-2600 1:1 ratio hoist, re-designed for a larger diameter stem and increased output.
- Output and load sensors were used to ensure that the output from the hand cranks met the tight specifications.
- The stands' stems and thrust nuts were enclosed to prevent dust and debris from getting on the greased stem, decreasing required maintenance and extending the life of the devices.



Partially assembled jack stands in line for testing.



Assembled jack stands packed for shipping.



Qualifications

Quabbin is an **ISO 9001-, AS9100- and ISO 13485-**certified gate component manufacturing company located in a 40,000-square foot facility in Wilton, NH. Quality parts, short lead times and broad capabilities have made the company a single-source parts supplier for the water, wastewater, hydroelectric and power industries for more than 25 years.

- Manufactured components for Rodney Hunt-Fontaine from 1996 to 2016 (when they closed).
- Make replacement parts for Armco, Chapman, Coffin, Coldwell-Wilcox, Craft gates and others.
- Supply stems and components to gate manufacturers in the US and Canada.

Recently-completed jobs:

- **Bureau of Reclamation Lower Colorado Dams:** Year 1 of Intake tower cylinder gate stem assemblies for upstream Nevada tower; supplied 1,000' of 6.5" Dia stems, 600' of 10" Dia stems, *Hoover Dam, Clark County, NV*
- **TVA:** Extension stems for six 24" gate valves, over 360' of stem, couplings, stem guides, operators and pedestals, *Raccoon Mountain Pumped Storage Plant, Marion County, TN*
- **Black River WWTP:** Two Rodney Hunt 6020 manual gear boxes, *Baltimore, MD*
- **City of Detroit:** Four top wedges on a 100-year-old 72" x 120" sluice gate manufactured by Michigan Valve, *Springwells Filtration Plant, Detroit, MI*
- **Abingdon WTP:** Stem for 42" x 42" sluice gate, *Hartford County, MD*
- **TVA:** Four 8" gate valve extension stems, couplings, stem guides and operators, *Wilson Dam, Muscle Shoals, AL*
- **Louisville Metropolitan Sewer District:** Stem, coupling and stop nut for flood gate, *Louisville, KY*
- **DC Water:** Three stems for 60" x 66" sluice gate in the grit removal chamber; also stem, coupling, operator nut and pedestal on a 36" x 36" sluice gate, *Blue Plains Advanced WWTP, Washington, DC*
- **City of New York:** Hinge posts for four 78" x 96" tide gates, *Hunt's Point Wastewater Treatment Plant, Bronx, NY*
- **Northern Indiana Public Service Co.:** Four 7" Dia x 38' L stems with 34' of thread, operator nut and stop nut for two flood gates, *Oakdale Dam, Carroll County, IN*
- **Whitewater WWTP:** Stems stop collar, operator nut, thrust nut, stem guides, *Whitewater, WI*
- **Paducah Levee System:** Stems, stem guides, operators, pedestals, stem covers, stop nuts on three 60" x 60 and three 48" x 48" sluice gates, *Paducah, KY*
- **Milwaukee Metropolitan Sewerage District:** Stems, thrust nuts, stem guides, couplings on two 108" Dia and one 84" x 144" sluice gate, *Milwaukee, WI*
- **Saukville WWTP:** Stems and seals for three 42" x 42" slide gates, *Village of Saukville, WI*
- **Tonawanda Water and Sewer Dept.:** Stems, pedestals, stem guides, stop collars, stem covers, wedges, invert seals, thrust nuts, couplings and electric operators, *Amherst, NY*
- **Allied Technical Services:** 28 split stem guides, *Apple Valley, OH*
- **Syracuse Levee:** Stem, stop collar, thrust nuts, stem guides, stem cover, pedestal and Limitorque operator, *New York State Dept. of Environmental Conservation, Kirkwood, NY*
- **Mari Corps, USA:** 72 jack stands designed to raise and lower the dock at Dangling Rope Marina on Lake Powell, *Kane County, UT*
- **Bureau of Reclamation:** Extension stems, couplings, operator stems, operator nuts, stem nuts, stop collars, thrust nuts, stem bellows nuts, *Derby Dam, Sparks, NV*
- **Green Mountain Power Corp.:** Stems (4.5" x 250" L, 220" thread), operator, operator nuts, pedestals, bellows, interconnecting shafts, stop collars for two 229.5" x 76" dual stem slide gates, *Marshfield Service Spillway, Marshfield, VT*