



BARNHART CRANE & RIGGING COMPANY

THE LIFTING LETTER

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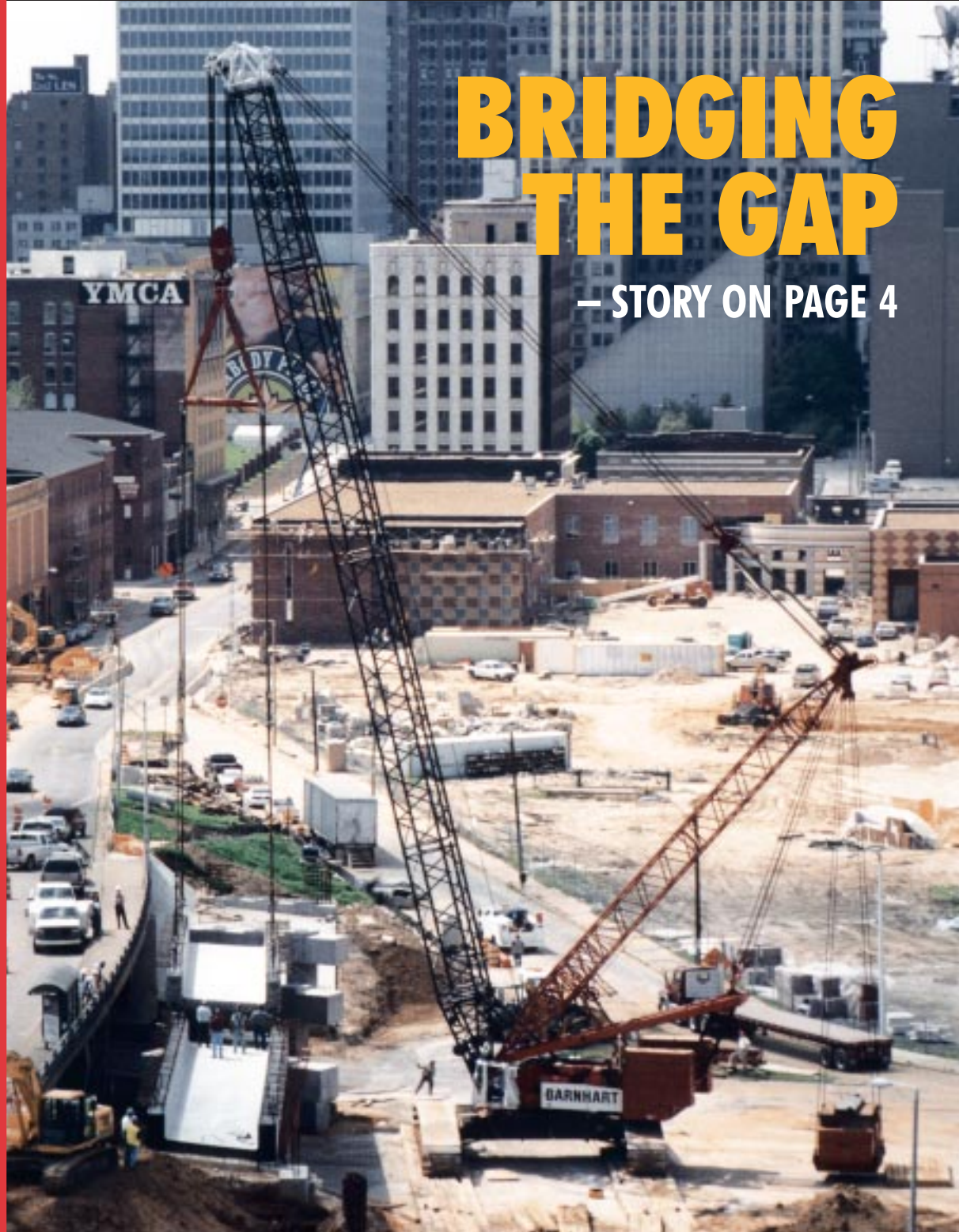
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BRIDGING THE GAP

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SOUTH CAROLINA



MODULAR LIFT TOWERS IN SOUTH TEXAS



Earlier this year, Barnhart traveled to south Texas to upright and set a low sulfur reactor column in a refinery. Existing pipe racks, newly installed steel structures and a weight increase to 430,000 lbs. proved problematic for a crane lift, but not for Barnhart's Modular Lift Towers (MLT). Barnhart utilized hydraulic gantries to transload the reactor from rail car to Barnhart's self-propelled hydraulic platform trailer. The reactor was transported through the plant to the Modular Lift Towers. Once in position, crews tailed the reactor with a 500 ton hydraulic crane while the MLT did the main lifting and transfer to anchor bolts. The 500 ton crane also set three smaller reactors weighing up to 100 tons.



TANDEM BOILER HAUL

After a year of planning, the day finally came for Barnhart to transport in tandem two boilers (54' long, 19' wide, 20' high and 300,000 lbs. each) on an over the road haul of 66 miles in South Carolina.



The project started at the Port of Charleston where 39 lines of Goldhofer platform trailer and two prime movers were loaded on a deck barge, and then the boilers were placed directly on the trailers. The barges were then moved up river to the roll off site.

After the roll offs, the boilers were transported to a staging area to prepare for the upcoming haul.

This project involved extensive coordination with our customer, the South Carolina DOT, multiple utility companies, the police, the barge company and several communities along the transportation route. With 144 tires under each boiler, the haul took two days and involved over 500 utility lines that were relocated, dropped or raised. Several 6% grades and bad weather could have hampered the operation, but did not.

PORT OF MEMPHIS DERRICK CRANE

Barnhart's 1250-ton stiff-leg derrick crane, Ichabod, located in Memphis, TN on the Mississippi River unloads a transformer from barge. Ichabod has stayed busy loading/unloading all types of heavy cargo from presses to power plant equipment to large pilings for a dam north of Memphis. There is barge, rail and truck access directly beneath the hook of this large port crane.



UP AND WAY OVER

Barnhart provided a local contractor one of their LTM1400s (500 ton crane) equipped with 86' of main boom and 276' of luffing jib to lift materials to the roof at a 300' radius at a Memphis area hospital. This project required extensive coordination with the hospital and was performed safely and ahead of schedule.



BARNHART EXPANDS - OPENS BRANCHES IN KNOXVILLE, TN & RICHMOND, VA

knoxville

Barnhart's Knoxville project office transitioned to a full service branch on May 12, 2002. With the purchase of the crane and rigging assets of C. Reed Davis Contractors, Inc., the Knoxville Branch operates with over forty employees, a fleet of cranes, rigging forklifts, gantry systems, transport equipment,

and specialty rigging equipment available on a daily basis. The Knoxville office will continue to serve the East Tennessee market as well as surrounding states. The facility is located approximately five miles from the intersection of I-40 and I-75.

richmond

On June 17 of this year, Barnhart purchased the assets of Williams Crane & Rigging, Inc., located in Richmond, VA. The new Mid-Atlantic branch is continuing to do business as Williams Crane & Rigging, a division of Barnhart Crane & Rigging Co. The Richmond branch will provide crane service,

machinery moving, heavy rigging and transportation services. Williams, founded in 1964, has executed many impressive jobs over the past 38 years, including the removal of a 1,034-ton reactor vessel/neutron shield tank package from DOE's Shippingport Station in Pennsylvania.

COVER STORY



BRIDGING THE GAP

Recently, the Memphis Area Transit Authority decided to expand their trolley system to incorporate the hospital district. In order to span a 300' bridge, pre-poured concrete beams as large as 80' long and 450,000 lbs. were designed. Barnhart Crane & Rigging was contracted to load, transport to the site and set in place the beams. Extensive coordination with the city was required to shut down a main downtown street in order to transport the beams. Barnhart worked twelve lines of Goldhofer platform trailer and a CC1200 (380 ton crane) with superlift to complete the project safely and ahead of schedule.



NEW TRANSPORTATION TECHNOLOGY IN BRIDGEPORT, TX

THE MISSION

Unload 46 power plant components (turbines, generators, transformers & HRSG modules) at a rail spur in Bridgeport, Texas and transport the power equipment 20 miles to the job site.

THE CHALLENGE

To obtain DOT approval to cross two bridges on the haul route with equipment weighing up to 580,000 lbs.

THE SOLUTION

Barnhart engineers, working closely with an independent Texas bridge engineer and the Texas DOT, designed and fabricated a hauling platform consisting of a combination of Goldhofer trailer (18 & 21 lines) and eight detachable dolly assemblies to allow transport across the bridges.

Four hydraulically actuated dolly “out looker” beams were fabricated and pinned to the Goldhofer deck, then the plant component was loaded on the Goldhofer, and finally the eight dolly assemblies were attached to the ends of the four out looker beams. Once assembled, the 22ft. wide rig (dolly beams retracted) proceeded down the 23ft. wide Texas farm road. At each of the two bridges the rig was stopped, dolly beams were hydraulically scoped out to 30ft. wide (31 ft. wide bridge), and the dollies were hydraulically lowered to contact the roadway to spread the weight of the rig across the entire lateral surface of the bridge. Once across the bridge, the dollies were raised, dolly beams scoped back in and the rig continued on the route. The hauls went smoothly due to the team effort by the Barnhart crew. The Barnhart team made a complicated heavy transport project look easy.

TELESCOPIC BOOM CRANES

	MODEL NO.	BOOM
500 Ton Liebherr All-Terrain (2)	LTM 1400	440'
440 Ton Demag Truck Crane (2)	HC 1010	348'
300 Ton Demag All-Terrain	AC 665	389'
225 Ton Liebherr All-Terrain	LTM 1160	364'
210 Ton Krupp All-Terrain	GMK 5210	322'
180 Ton Demag All-Terrain (3)	AC 435	262'
165 Ton Demag All-Terrain (3)	AC 335	302'
150 Ton Demag All-Terrain (2)	AC 395	253'
150 Ton Krupp All-Terrain (2)	KMK 5100	227'
120 Ton Demag All-Terrain	AC 265	204'
110 Ton Liebherr (3)	LTM 1090	243'
110 Ton Krupp All-Terrain	KMK 5110	214'
100 Ton Demag All-Terrain (4)	AC 205	219'
80 Ton Krupp All-Terrain (4)	KMK 4070	175'
80 Ton Grove RT (2)	RT 990	206'
70 - 60 Ton Truck Crane (5)		186'
50 - 30 Ton Grove Truck Crane (14)		142'
22 Ton Grove All-Terrain/Truck (4)		113'
27 - 12 Ton Boom Truck (6)		149'
17.5 - 8 Ton Carry Deck (7)		37'

CRAWLER/RINGER CRANES

	MODEL NO.	BOOM
1800 Ton Demag with Ringlift	CC 4000	595'
880 Ton Demag Crawler with Superlift	CC 4000	550'
440 Ton Demag Crawler with Superlift	CC 2000	435'
386 Ton Demag Crawler with Superlift	CC 1200	433'
360 Ton Link-Belt Heavy Lift	LS 718 HL	480'
330 Ton Demag Crawler	CC 2000	433'
275 Ton Demag Crawler	CC 1200	433'
250 Ton Link-Belt Crawler Tower Crane (2)	LS 718	550'
250 Ton Link-Belt Crawler Crane (2)	LS 718	450'

LATTICE BOOM TRUCK CRANES

	MODEL NO.	BOOM
800 Ton Demag Truck Crane with Superlift	TC 3000SL	496'
550 Ton Demag Truck Crane	TC 3000	496'
440 Ton Demag Truck Crane with Superlift	TC 1200 SL	472'
308 Ton Demag Truck Crane	TC 1200	472'
200 Ton Link-Belt Truck Crane	HC 258	370'
125 Ton Link-Belt Truck Crane (2)	HC 238	300'

HEAVY LIFTING, MOVING & SLIDING

500 Ton Hydraulic Gantries (20)
 1000 Ton Sliding Systems (8)
 Forklifts to 120,000 lbs. with hydraulic booms
 1800 Ton Strand Lift
 Lift Towers to 1200 Tons
 2400 Ton Jacking System
 Air Casters to 500 Tons

MARINE SERVICES

Memphis, TN - Heavy Lift Terminal with 1250 Ton Derrick Crane, Rail Service, Heavy Storage
 Mobile, AL - Heavy Cargo discharge and storage, RO-RO, Barge/Rail Loading Heavy Lift Services
 Decatur, AL - Barge Dock, Cranes to 500 Tons, RO-RO
 Pascagoula, MS - Heavy Cargo discharge and storage, Barge/Rail Loading, Heavy Lift Services

TRANSPORTATION SERVICES

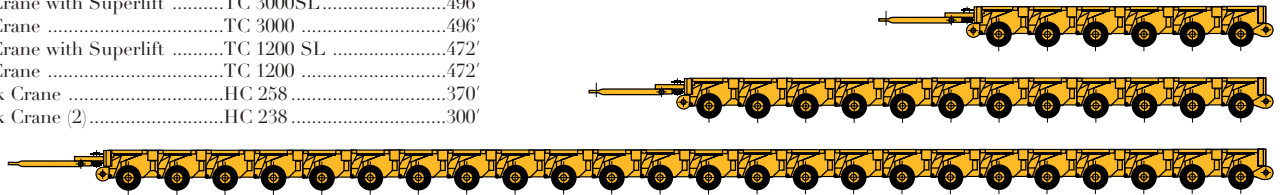
Over 2000 Tons of Hydraulic Platform Trailer Capacity including SPMT
 Barge and Rail Loading and Securement
 Dolly Transporters to 1000 Tons
 48 State Heavy Haul, Stretch Trailers, Tank Trailer to 16' diameter
 Temporary Bridges to 152'
 Jumper Ramps 30'-152'

INTERNATIONAL SERVICES

The following can be shipped in standard containers:
 Lift Towers, Dolly Transporters, Gantries, Goldhofer Trailers, Sliding Systems,
 Barge Ramps, Temporary Bridges, Strand -Lift Systems

STORAGE CAPABILITIES

500,000 Square Feet of Indoor Warehousing
 Over 100 Acres of Outdoor Storage



1701 Dunn Ave • Memphis, TN 38106 • 901-775-3000 • 800-727-0149 • fax 901-775-2992
 731 Finley Island Road • Decatur, AL 35601 • 256-355-5531 • 800-830-4260 • fax 256-355-2091
 8216 Arch Street Pike • Little Rock, AR 72206 • 501-570-0700 • 800-543-2318 • fax 501-570-0304
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