

BARNHART

Minds Over Matter

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THE LIFTING LETTER

2005 SECOND EDITION

A PUBLICATION OF BARNHART



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DHD T REACTOR**

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Mobile Steel Mill Disassembled

Crews from Barnhart assisted in the dismantling of a steel mill in Mobile, Alabama. A Demag CC2000 in superlift configuration lifted out the over-dimensional modules. Barnhart utilized Goldhofer platform trailer to transport the modules to a roll on site, rolled the modules on to barge, transported the modules to the Alabama State Docks and rolled them off the barge to await loading by heavy lift ship.



CC2600 Performs Critical Bridge Change Out



Earlier this year, Barnhart was selected by the Union Pacific Railroad to provide heavy lift crane services and rigging to remove and replace two railroad bridge spans at two sites in Iowa. The change-outs included replacing both the abutments and bridge spans and were completed on the railroad's mainline safely and ahead of schedule in less than 24 hours.

MLT & SPMT Set DHDT Reactor

Barnhart crews returned to a Toledo refinery to transport and lift two 400-ton DHDT reactors for the refinery's clean fuels program. The Modular Lift Tower (MLT) provided the main lifting while tailing was performed by Barnhart's tailing frame fixed to self-propelled modular platform trailer (SPMT). The 100' tall reactors were received at the Port of Toledo from heavy lift ship, transported to the refinery and set safely on the anchor bolts earlier in the year.



cover story





Modular Lift Tower the Perfect Solution for NASA

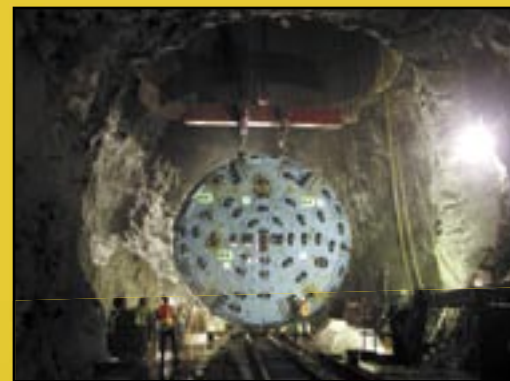


Recently, NASA's United Space Alliance began refurbishing the first of two specialized shuttle launch facilities (Pad A & Pad B). Each pad is comprised of a fixed service structure (FSS) and a rotating service structure (RSS). The structural space frame of the 1,200-ton RSS needed to be supported temporarily to strengthen structural chords and joints.



Barnhart was contracted to raise the structure to relieve a large portion of the dead load stresses. The Modular Lift Tower (MLT) constructed a sub-structure that had six jacking stations able to apply loads at prescribed locations. With intense engineering oversight and a unique application of the MLT, Barnhart was able to provide NASA with precise lifting at six separate points on the structure.





Really Low-Down Project

Barnhart was selected by an Atlanta contractor to assist in the assembly and positioning of a Tunnel Boring Machine (TBM) at two sites for Atlanta's extensive storm water retention and treatment project.

The Modular Lift Tower assisted in the assembly of three large subassemblies weighing from 198 to 318 tons each. The MLT lowered the sections down into both the 150' and 300' deep shafts and set the sections on hydraulic slide track to facilitate moving and assembly of the TBMs. Once assembled, the machines started their 8 mile track below the streets of Atlanta. Barnhart's creative solution and efficient crews completed the project safely and on time.



Steam Dryer Replacement at Nuclear Facility

This spring, Barnhart traveled to the Quad Cities to work with a nuclear facility to change out two steam dryers for the boiling water reactors. Barnhart assisted in the offsite assembly of the new steam dryers, the transport of the dryers to site, as well as the removal and replacement of the containment building siding. Additionally, Barnhart fabricated and erected an exterior platform with the Hydraulic Slide System to receive the old and new steam dryers outside the building wall. A Demag TC3000 truck crane performed the lifting. Detailed engineering coordination between Barnhart and the customer were critical as the change out was the first of its kind in the nuclear industry. Barnhart has developed a reputation for meeting the demanding requirements of the nuclear industry.



TELESCOPIC BOOM CRANES

	MODEL NO.	BOOM
500 Ton Liebherr All-Terrain (2)	LTM 1400	440'
440 Ton Demag All-Terrain (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 (4)	GMK 5210	322'
190 Ton Liebherr All-Terrain (2)	LTM 11160-2	315'
180 Ton Demag All-Terrain (2)	AC 435	262'
165 Ton Demag All-Terrain (4)	AC 335	302'
150 Ton Demag All-Terrain (2)	AC 395	253'
120 Ton Demag All-Terrain	AC 265	204'
110 Ton Liebherr All-Terrain (4)	LTM 1090	243'
110 Ton Krupp All-Terrain (2)	KMK 5110	214'
100 Ton Demag All-Terrain (4)	AC 205	219'
80 Ton Krupp All-Terrain (3)	KMK 4070	175'
80 - 75 Ton Rough Terrain (4)		206'
70 - 60 Ton Truck Crane (15)		186'
55 - 30 Ton Rough Terrain (7)		167'
50 - 30 Ton Truck Crane (11)		142'
28 - 20 Ton Truck Crane (6)		136'
28 - 14 Ton Rough Terrain (9)		136'
27 - 12 Ton Boom Truck (8)		149'
22 Ton All-Terrain (4)		113'
17.5 - 8 Ton Carry Deck (5)		37'

CRAWLER/RINGER CRANES

	MODEL NO.	BOOM
1800 Ton Demag with Ringlift	CC 4000	595'
880 Ton Demag Crawler with Superlift	CC 4000	550'
640 Ton Crawler with Superlift	LR 1700	322'
600 Ton Demag Crawler with Superlift	CC 2600	295'
500 Ton Demag Crawler	CC 2600	295'
440 Ton Demag Crawler with Superlift	CC 2000	435'
360 Ton Crawler	LR 1700	322'
360 Ton Link-Belt Heavy Lift	LS 718 HL	480'
330 Ton Demag Crawler	CC 2000	433'
250 Ton Link-Belt Crawler Tower Crane (2)	LS 718	550'
250 Ton Link-Belt Crawler Crane (3)	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)	Lift Towers to 1200 Tons
1000 Ton Sliding Systems (8)	2400 Ton Jacking System
Forklifts to 120,000 lbs. with hydraulic booms	Air Casters to 500 Tons
1800 Ton Strand Lift	

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

**MULTIPLE BARNHART LOCATIONS**

- 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
 - 6033 155 South • Jackson, MS 39272 • 601-664-3005 • 800-394-8652 • fax 601-664-3077
 - 26374 Pollard Road • Daphne, AL 36526 • 251-654-0541 • 800-587-3249 • fax 251-654-0547
 - 100 Crane Lane • Oak Ridge, TN 37830 • 865-966-9786 • fax 865-966-9705
 - 190 Smith Street • West Monroe, LA 71292 • 318-322-LIFT (5438) • fax 318-388-3808
 - 6875 Woolworth Road • Shreveport, LA 71129 • 318-687-4416 • fax 318-687-4421
 - 3115 N. State Route 23, Suite 1 • Ottawa, IL 61350-2107 • 815-431-0078 • fax 815-431-0776
 - 13402 South Freeway • Houston, TX 77047 • 713-433-6480 • fax 713-433-8214
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