



**BARNHART CRANE &
RIGGING COMPANY**

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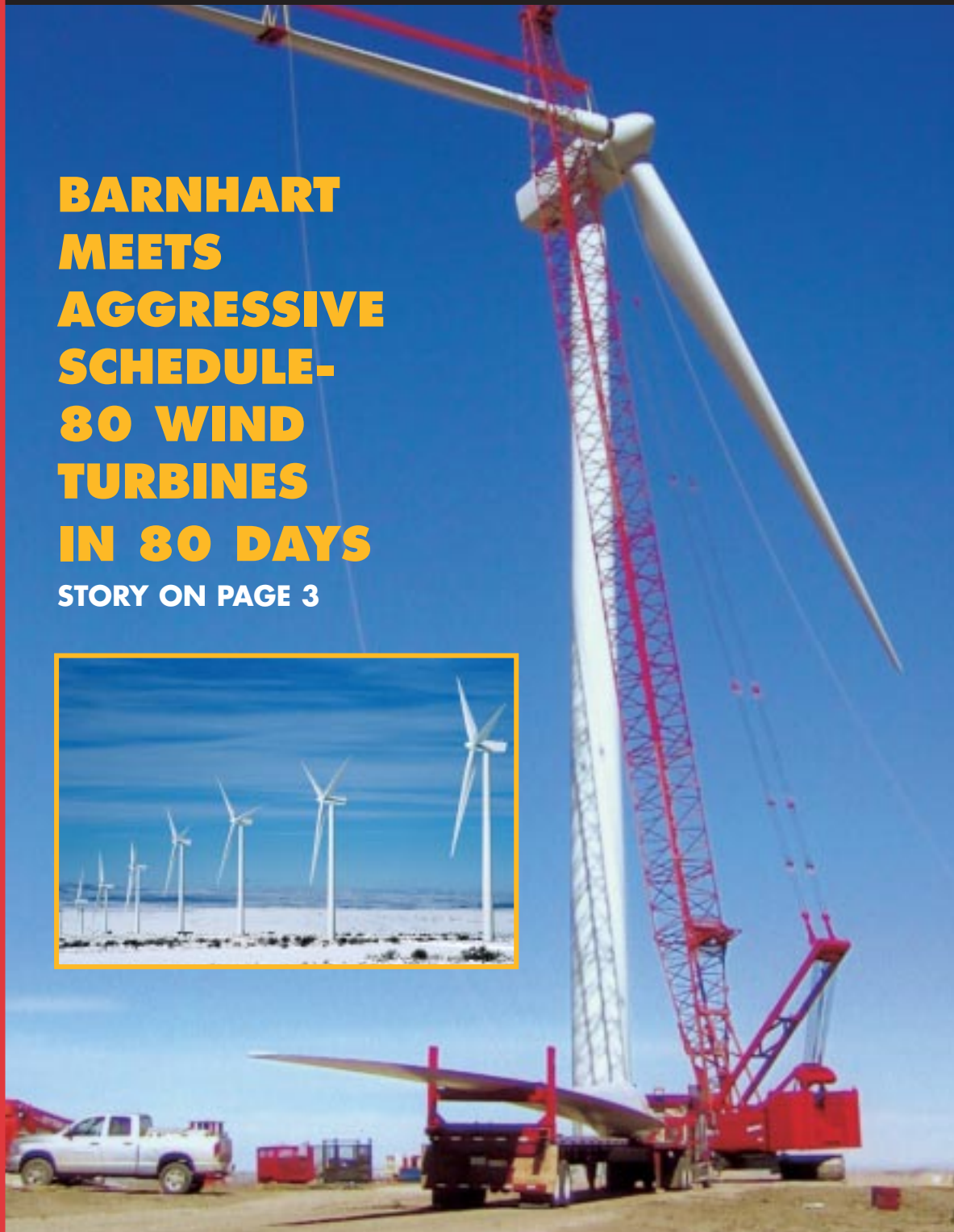
THE LIFTING LETTER

2 0 0 3 T H I R D E D I T I O N

A PUBLICATION OF BARNHART CRANE & RIGGING COMPANY

BARNHART MEETS AGGRESSIVE SCHEDULE- 80 WIND TURBINES IN 80 DAYS

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ENGINEERS AT BARNHART TACKLE DIFFICULT FEED WATER HEATER CHANGE OUT

Recently, a coal fired power plant needed to change out a feed water heater (178,000 lbs.) located on the 5th floor on a mezzanine that could not support the heater. Barnhart worked on the 3rd floor over a basement that could not support the weight of the heater either. Barnhart utilized a gantry system supported on a steel structure over beams supporting the floor. On the 5th floor, the gantry track was supported on beams off existing columns. With only inches of headroom and working off the top of the gantries, this project was completed safely and on time.



DELIVERY OF 350 TON BOILER TO JAMAICA

Earlier this year, Barnhart transported a 350 ton steam boiler from a fabricator's shop in Mississippi to a refinery in Jamaica. After meticulous work with the Mississippi DOT and county officials as well as several bridge studies, Barnhart was awarded a permit to haul to the roll on site. Over 100 overhead wires and a significant amount of tree trimming took place to move the large boiler (32' high and 29' wide) over the road. The boiler was then rolled on to a deck barge, secured and shipped to Jamaica.



Once in Jamaica, the boiler was rolled off the barge with platform trailer, hauled 15 miles in 4 hours (220 overhead lines had to be relocated). Barnhart then set the boiler on its foundation with a gantry system. The project was completed on time and without incident.

COVER STORY

BARNHART MEETS AGGRESSIVE SCHEDULE 80 WIND TURBINES IN 80 DAYS



Barnhart Crane was contracted by a major wind turbine manufacturer to perform all logistics and erection aspects of an extremely aggressive wind project in Wyoming. The project was awarded on the basis that Barnhart could safely and efficiently transport and erect 80 1.8 Megawatt machines on 65 meter towers in less than 3 months.

Barnhart was responsible for leasing, tracking, loading and unloading over 300 rail cars, as well as rail siding improvements. Cranes, labor and supervision were provided to unload and transport over the road over 640 wind turbine components. Site erection included management of several lay down yards, mechanical erection, cleaning, document control, procurement and on site transportation of turbine parts.

By providing a seamless process from multiple ports of entry to completed wind turbines on their foundations and Barnhart's ability to work as a team with the customer, owner, subs and multiple Barnhart crews, the turbines were delivered safely on time.



BARNHART UTILIZES SPECIALIZED TAILING FIXTURE TO UPRIGHT COLUMN



In August, Barnhart performed roll off operations, on site transportation and the heavy lifting of a 150 ton splitter column and a 100 ton reactor for a Texas contractor at a local refinery. A TC-3000 (800 ton class crane) with 236' of main boom and full super-lift counterweight safely performed the main lifting while Barnhart's specialized tailing fixture on platform trailer handled the tailing operations in an extremely crowded operating refinery.



EMERGENCY ENGINEERING AND CRANE WORK

This summer, 100 mph winds struck the Memphis area and damaged all three tower cranes at the under construction NBA arena. The general contractor was concerned that the cranes would fall over. Barnhart engineers quickly developed and executed a plan to secure and take down the cranes. Two LTM-1400s (500 ton cranes), a 250 ton crawler crane, multiple smaller cranes, a winching system, guyed wires and experienced crews successfully stabilized and disassembled all three tower cranes safely in less than a week.



FEED WATER HEATER REPLACEMENT AT NUCLEAR PLANT

Barnhart's engineering expertise was required in September to provide the tools to replace two feed water heaters during an outage at a nuclear facility in the midwest. The 25 ton #5 feed water heaters had to be maneuvered over a floor not designed to carry such loads and around existing structures and obstacles. The Barnhart-designed light hydraulic slide track and rotation system traveled the heaters across the reinforced floor to the facility's overhead crane.

The light slide system has a capacity of 100 tons and can be set up, operated and dismantled with a two person crew. Through careful planning, teamwork and innovation, the old heater units were moved out and the new ones set in place two and a half days ahead of schedule.



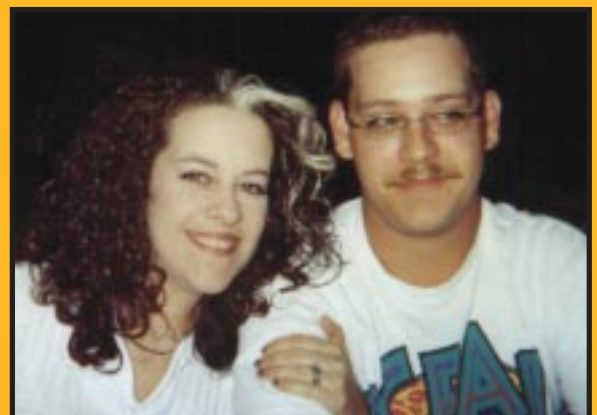
BARNHART CRANE IN LONGHORN COUNTRY

Barnhart recently visited the campus of the University of Texas at Austin to set a generator (60 tons), condenser (100 tons) and a turbine (140 tons) with the Modular Lift Tower (MLT). The project included the use of the 200 ton hoist system and 9 lines of self propelled Goldhofer platform trailer. The work was performed near the football stadium during football season. Barnhart was awarded the project based on the characteristics of the MLT that minimized congesting the campus as would a large crane.



BARNHART LOSES ONE OF THEIR OWN

In November, one of Barnhart's own, Joe Dale, was tragically killed in an automobile accident. Joe worked in our Purchasing and Receiving Department, and tackled his job with great fervor and dedication. His positive attitude was contagious to others. Joe Dale will be greatly missed and he helped make Barnhart a great place to work.



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 (2)	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'
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'
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 Gentries (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, Gentries, 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



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