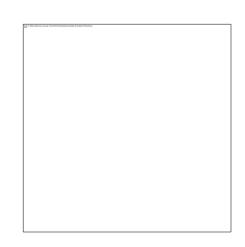
June 9, 2018



Presented by: Chad Stall



Nelson Manufacturing Company

- Established in 1947 by Jack and Virginia Nelson as a "Lowboy" Trailer Manufacturer.
- Located at Present Location in Ottawa, Ohio since 1956.
- Designs and builds specialty trailers for numerous industries including: heavy haul trucking, aerospace, automotive, nuclear, crane and rigging.
- Provides transportation solutions for cranes with crane boom carriers and boom launch trailers.
- Offers structural repairs and complete rebuilds of trailers and boom dollies.



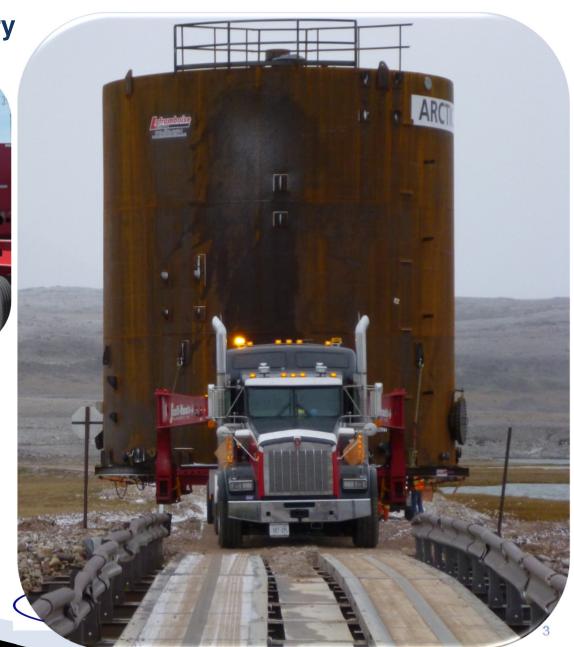
Nelson Multi-Axle Trailers

For the Heavy Haul Industry



Nelson MA-80 Hydraulic Adjustable Width Deck 80 Ton Capacity Trailer

Owned by Scott Woods Transport, Inc.



Nelson 100 Ton Multi-Axle Trailer



Trailer features:

(20) Axles with Disc Brakes

Nelson Air Ride Trunnion Axle Suspensions

Hydraulic Steering on (3) Axle Groups

Recessed Well Deck Section



Modular Concrete Beam Hauler



James Webb Space Telescope Transport Assembly





Nelson Crane Transportation Equipment History

- First boom dolly was built in 1962 for a P & H truck crane
- Our first load transfer axle was built in 1968 for a P & H crane

Our first boom launch trailer was built in 1995 for

a Krupp KMK6275





Pin 'n Go for Rough Terrain Cranes



Can be designed to accommodate most any RT crane. Nelson works with the crane manufacturers to ensure a structurally sound connection.



Pin 'n Go for Rough Terrain Cranes

Advantages of the Pin 'n Go vs a lowboy trailer

Front and Rear Pin Together for "empty" travel

No Tie Down Required

Quick Load and Unload

Lighter weight





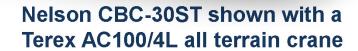
Nelson CBC-30ST shown with a Link-Belt HTC-86110 crane

Nelson CBC-40RT shown with a Link-Belt HTC-86100 Crane









Nelson CBC-30S with a Liebherr Crane



Nelson CBC-50RT on a Grove GMK5275





Nelson CBC-30WS on a Tadano ATF-220G-5







Nelson CBC-30RT on a Link-Belt HTC-3140 Truck Crane

Nelson CBC-30P with a Potain Self Erecting Tower Crane





Nelson CBC-30RT shown with a Liebherr LTM-1160-5.1 Crane

Nelson CBC-30S shown with a Terex AC250 Crane





Nelson Boom Launch Sequence



The launch trailer provides all the functionality to travel the boom. Crane hydraulics are NOT needed to launch the boom onto the trailer.

Once the main trolley is connected to the boom hydraulically travel to the transport position on the boom.





Nelson Boom Launch Sequence



Once the boom is into the proper position hydraulically lower the boom into the rear boom support saddles. Remove the weight from the main trolley for transport.



Nelson Boom Launch Sequence



Raise up the hydraulic legs, turn off they pony motor on the trailer, strap the boom down and complete your pre-trip inspection. The boom is now ready to be transported.



- Limit Boom Extension when possible.
- Hand Brake/Spike Brake in Cab
- Nelson has an internal 60/40 rule.
 - 60% minimum of the gross weight on the crane axles
 - 40% maximum of the gross weight on the dolly axles







- Wabco Roll Stability ABS Valves
 - Valve actuates when it senses a .2 g sideload sets brakes on dolly
 - Installed (2) valves on 5 axle (2+3) rolling tower dolly for Mammoet in November, 2017
 - Drove around Edmonton and did not get a Roll Stability Event
 - Downloaded files last week, dolly has 1,357 miles since install



- Tandem
 - 8 ABS applications since November 2017
 - 2 Level 1 applications Warning that rollover is possible – no intervention from ABS valve
 - 0 Level 2 applications Intervention from ABS valve
- Tridem
 - 5 ABS activations since November 2017
 - 0 Level 1 applications Warning that rollover is possible – no intervention from ABS valve
 - 0 Level 2 applications Intervention from ABS valve



- Bendix Multi-volt Roll Stability ABS valve
 - Have installed this valve on several trailers to monitor speed and control an output
 - Multi-volt will replace the voltage converter because most cranes are 24V and a voltage converter is currently used to step down to 12V so the ABS valve is not fried
 - We can also sense other inputs and turn on a warning light
 - Tire pressure monitoring system
 - Wi-fi link to crane if Bendix valve is installed on crane no wires necessary for readouts in crane – has (2) back up camera inputs



Questions?



