

TANK Connection™ - FP Tank Erection Process keeps Field Crews on the Ground !

A safe work environment is obviously a top priority in all industries. Whether you work in an office, a manufacturing plant, or in construction, safety is a factor that must be monitored continuously. Innovations to enhance safety are sought after in each industry. ***That's why Tank Connection, the leader in storage tanks/silos and integrated storage systems, has developed the top rated field construction process in the tank industry.***

Field-erected bolted tanks began decades ago in the "oil patch" territories. Tanks were developed utilizing steel panels that were formed in the shop and shipped to the field for bolted assembly. This methodology transformed through the years to include designing these tanks to store other liquid and dry bulk materials. However, with this transformation, the field construction techniques used have never been considered safe construction practices.

In the past, tank constructors used scaffold brackets and wooden planks to scale the exterior of the tank during construction. Depending on the tank height, workers would be several stories off the ground with minimal safety restraints including tie-off lines and harnesses. In today's industrial market, plant managers must ensure the safety of all workers on site. This is why Tank Connection has taken the safety of bolted tank construction to a new . . . unmatched level of field performance.

By utilizing a series of synchronized, hydraulic screw jacks at grade level, workers do not have to leave the ground to install a field-erected bolted tank. The system is carefully designed for each application, taking into consideration the tank diameter, height, dead weight, wind conditions, etc. Tank Connection is also the manufacturer of this proprietary jacking system.

Engineers, plant managers, and safety trainers all tout the safety aspects of our field construction services. One safety coordinator at a major chemical plant stated "***we have taken the old method of tank installation and made it into a training session of what not to do***". It is the only tank construction process available in the marketplace today that can be considered "safe field construction".

Regardless of the tank size, Tank Connection's jacking system has become the preferred choice for field-erected bolted tanks worldwide. When safety is your concern, Tank Connection has the answers. *Get Connected with the Engineers' 1ST choice in storage!*

Pictorial review follows . . .



1. Tank installation begins with the “starter” or anchor ring that is anchored to the foundation. Next, the tank jacks are put into position.



2. Note the jacks being anchored to the slab as well as the “starter” ring attached to the anchor bolts.



3. Field installation begins with the top ring of the tank attached to the synchronized hydraulic screw jack system.



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4. Sidewall sheets are added from the ground level until the ring is complete. The ring is then raised with the jacks, and the next ring down is added.



5. Sidewall sheets are added in a counter-clockwise direction.



Dry Bulk Hopper Storage



Liquid Storage

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6. Once the ring is complete, the tank is lifted to allow the installation of the next ring.



7. At any time, the tank can be lowered and attached to the “starter” ring to allow anchorage for leaving the tank overnight, over the weekend or in the event of sudden increase of wind or a storm.



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8. A dry bulk storage silo is now nearing completion. It is 26' diameter X 96' height with a 55 deg hopper inside and will be storing cement.



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9. Two massive, FP (Flat Panel) Design, Smoothwall Bolted Tanks were erected and operational in less than 22 days each.



10. Tank installation process is rated #1 for safety and quality control. Tank Connection ships and installs tanks and silos worldwide.

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