

# Liebherr Crane Assembly, United Equipment, Doha



**Challenge:** Numerous joints need to be bolted together during the erection of a tower crane. The stability of the tower crane is dependent on the integrity of its bolted sections. The precise application of torque is critical to ensure the tower crane's stability.

**Solution:** An EvoTorque® 6000 electric torque multiplier delivered precise torque output during the assembly of tower crane sections. The EvoTorque® multiplier ensured each section was constructed with the utmost stability. Compared to the previous method of using a hydraulic torque wrench, the team was able to save considerable time by removing the need for additional apparatus, including an hydraulic pump, associated hardware and in most cases additional work platforms for equipment support. A key advantage is a reduction in manpower required to perform bolting operations.



Peter Grant (Left) Ayham Hasoun (Right) of United Equipment.

## Application

Assembly of tower crane sections. Torque required up to 5850 N·m.

## Solution

Norbar EvoTorque® ET-119 electronic multiplier with standard reaction.



“The EvoTorque® tool has helped improve the speed at which we can safely erect our tower cranes; it also requires less manpower.”

— Ayham Hasoun, United Equipment, Doha.