

Fishplate Railway Clamping System



Overview:

Railway lines are constantly under significant amounts of stress, and are often in need of regular maintenance and repair work. In order to keep downtime to a minimum and the transport network operational, temporary fixes are sometimes required. One particular aspect of railway lines in need of regular attention are the railway tracks; these components, which stretch for hundreds of miles see an enormous amount of wear, which can ultimately lead to fractures in the material, often a result of excessive vibration and frequent use.



Codiun, a leading innovator, manufacturer and supplier of products to the rail industry recently met trackside with Norbar's own David Waters. They performed a series of tests using the Norbar designed NorTronic wrench and HT72 compact torque multiplier in conjunction with the Codiun designed Intelliclamp system.

Solution:

A successful demonstration proved the effectiveness of the tools, which during tightening operations provided accurate torque control over the Codiun clamp system, to the various sections of the track. The tool, which had been pre-configured for the application comfortably delivered its first torque target, a value of 400 N·m. A recent upgrade to the NorTronic wrench enabled it to calculate the output torque from the multiplier, which is achieved by taking the multiplication factor data from the calibration certificate, and then entering this data into the NorTronic software. The tool displayed the value applied on the output of multiplier which was then saved to the internal memory.

Where data capture wasn't necessary, the NorTronic was substituted for a conventional clicker type wrench, with a more conventional method of tightening used.



Application

Controlled tightening of Codiun Clamping System used to clamp fishplates to rails

Solution

NorTronic digital torque wrench used with HT72:27 AWUR and bespoke reaction assembly, in conjunction with Codiun designed Intelliclamp system



Codiun designed clamping system



Within our family of distributors we share applications and can often recommend solutions that have been tried and tested elsewhere.



www.norbar.com