



### Application description

Loosening and tightening wheel nut bolts on the Caterpillar 797 mining truck.

#### Bolting process for this application:

When the wheels on these machines need to come off, for example when tires need to be replaced, dozens of bolts must be loosened and fastened. Torques of over 3.000 Nm may be required to loosen some bolts.

#### RAD solution and USP's:

The 797 RAD 46GX SYSTEM pneumatic drive:  
This kit was developed exclusively for the Caterpillar 797. The extension shaft allows safe access to the wheel configurations found on this model.

#### Examples of manufacturers:

Caterpillar.

#### The conventional methods and drawbacks:

Hydraulic torque wrenches: slow and cumbersome. Impact wrenches: noisy and lots of vibrations, inaccurate.

#### Specification of RAD tools and accessoires:

- RAD 46GX (PN: 13571):  
1.400 – 4.600 Nm, 12 rpm
- 4 point reaction arm (PN: 11414)
- 724 mm spline shaft (PN: 11146)
- 55 mm spline socket (PN: 11148)

#### Target customers:

Mining, ore transfer, anywhere where these machines are used.



*Caterpillar 797 mining truck.*



*And on the rear wheel of a CAT 797.*



*The kit in action on the front wheel of a CAT 797.*