



### Application description

On countless applications in public transport bolts have to be tightened to a specific torque. Examples are wheel bolts, suspension bolts, railroad rail bolts, etc.

#### Bolting process for this application:

Depends on the application.

#### The conventional methods and drawbacks:

Impact wrenches, with accompanying noise and vibrations, causing physical strain, and manual torque wrenches.

#### RAD solution and USP's:

B-RAD SELECT, MB-RAD, B-RAD-S, B-RAD Offset, RAD SDM, special reaction arms and reaction pieces, nose extensions.

#### Specification of RAD tools and accessories:

Depends on the application.

#### Examples of manufacturers:

Alstom, Siemens Mobility, VDL, Van Hool, Stadler, Alexander Dennis





*Special reaction arm (in gold (art.nr. 301083)).*



*B-RAD SELECT 1400 Offset on bolt with limited space.*



*B-RAD SELECT 4000 with special reaction piece on a tram wheel.*



*RAD SDM tightening a hard to reach bolt on a train chassis.*



*MB-RAD 2000 with sliding reaction arm and double nose extensions.*