

PRODUCT SYSTEMS DEVELOPMENT - WHEELS

USER REQUIREMENT SPECIFICATION

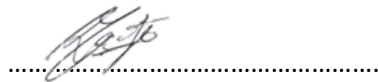
DOC. NO.: PD_PDWL_NAT_URS_071

USER REQUIREMENT SPECIFICATION FOR THE SUPPLY OF AN AIR DRIVEN IMPACT WRENCH FOR TRANSNET ENGINEERING WHEELS BUSINESS

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Date: 1 July 2026

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HISTORY OF CHANGES

First issue: 06 – 10 – 2020

Document No.: PD_PDWL_NAT_URS_071

The following changes are included in this revision:

Pages Affected	Revision #	Release Date	Description of Changes

DOCUMENT CONTROL

Distribution List:	
Document Availability:	SAP DocMan
Related Policy Documents:	
Supporting Templates:	

1.0 SCOPE OF WORK

- 1.1 This specification details the user requirements (URS) for the purchase and delivery of an air driven impact wrench **(See annexure A for an example of an impact wrench)**. This air driven impact wrench will be used to release and tighten locomotive gear ring bolts during maintenance.

2.0 SPECIFIC REQUIREMENTS

- 2.1 The air driven impact wrench shall provide the latest technology and ensure the following: (The tenderer must indicate compliance to each item in the checklist in Annexure B and submit it with the tender documents)
- 2.1.1 The impact wrench must have a working range from 0Nm -1500Nm to loosen and tighten bolts.
 - 2.1.2 The impact wrench drive must be able to move forward and in reverse direction.
 - 2.1.3 The impact wrench must be air driven. The continuous system air pressure is 6 Bar.
 - 2.1.4 The impact wrench must be supplied with a 1 inch drive.
 - 2.1.5 The air inlet must be half inch (1/2") size.
 - 2.1.6 A 20m air hose with ½ " rectus type 26 male and female quick release coupling must be supplied with in-line air filter.

3.0 OPERATING ENVIRONMENT

- 3.1 The impact wrench will be used in the wheel shop. No temperature control or air conditioning exists.

4.0 GUARANTEE

- 4.1 A testing period is to be defined for the purposes of identifying all operation problems that might exist. Thereafter, a 12-month guarantee period will be required during which any fault during operation or design shall be fully covered by the tenderer.

5.0 DOCUMENTATION

5.1 The impact wrench shall be accompanied by full documentation (1 x hard copy and 1 x soft copy) including the following (Price included in the tender):

- i. An operation manual explaining the safe operation, fault finding and use of the impact wrench.

ANNEXURE A



Figure 1: Example of an air driven impact wrench

ANNEXURE B

No.	Heading / Sub-section	Comply		Comments
		Yes	No	
1.0	SCOPE OF WORK			
1.1				
2.0	SPECIFIC REQUIREMENTS			
2.1				
2.1.1				
2.1.2				
2.1.3				
2.1.4				
2.1.5				
2.1.6				
3.0	OPERATING ENVIRONMENT			
3.1				
4.0	Guarantee			
4.1				
5.0	Documentation			
5.1				