

ISO 9001:2015	Document No: TM/HM/6/132 Rev-1	Version No:0.0	Date effective: 24/02/2023
Specification of Driving Axle (rear) of Unimat (Part no. UD-62-4901)			



RESEARCH DESIGNS AND STANDARDS ORGANISATION
Manak Nagar, Lucknow-226011

TRACK MACHINES AND MONITORING DIRECTORATE

SPECIFICATION NO. TM/HM/6/132 REV-1
SPECIFICATION OF DRIVING AXLE (REAR) OF UNIMAT
(PART NO. UD-62-4901)

DTM-VI	EDTM	Page 1 of 2
Prepared By:	Issued By:	

ISO 9001:2015	Document No: TM/HM/6/132 Rev-1	Version No:0.0	Date effective: 24/02/2023
Specification of Driving Axle (rear) of Unimat (Part no. UD-62-4901)			

SPECIFICATION NO. TM/HM/6/132 REV-1
SPECIFICATION OF DRIVING AXLE (REAR) OF UNIMAT
(PART NO. UD-62-4901)

- 1.0 Scope:** This specification covers the dimensional, functional and material requirements with testing criteria of driving axle (rear) of Unimat. This specification may be treated as provisional subject to modifications based on service performance.
- 2.0 Reference documents:** Following standards have been referred to in this specification. Full sets of relevant drawings and the referred codes/specifications, duly incorporating the up-dated corrections/amendments, shall be available for reference at manufacturer's works.
- i) IRS-R43-92: Indian Railway standard specification for (with updated amendments/corrigendum) Axles for Diesel and Electric Locomotives, EMU Motor Coaches and Powered Axles of Rail Cars (applicable to all gauges).
 - ii) EN 13261: European standard of Railway applications for wheel-sets, bogies and axles product requirements.
 - iii) RDSO's Drg.no.TM/0326 Rev-1: Driving axle (rear) of Unimat (part no. UD-62-4901)
- 3.0 Functional Requirement:** The axle shall function as driving bogie axle (rear) of Unimat.
- 4.0 Material:** The material shall conform to the specifications as mentioned in RDSO's letter no. TM/HM/TMM Vol.II dated 17.10.2017.
- 5.0 Test:**
- 5.1** All tests including ultrasonic test of forged boom shall be carried out as per relevant clauses of IRS specification referred above.
- 5.2** The ultrasonic testing of finished/ in-service axle shall be conducted as per code of procedure issued by RDSO vide letter no. TM/HM/7 dated 07.02.2003.
- 6.0 Inspection:** The inspection of the axle shall be carried out as per relevant clauses of IRS specification referred above.
- 7.0 Protection and Packing:** The protection and packing of the axle at journals, axle body and wheel seats shall be as per relevant clauses of IRS specification referred above.

DTM-VI	EDTM	Page 2 of 2
Prepared By:	Issued By:	