

ISO 9001:2015	Document No: TM/HM/6/137 REV- 3	Version No: 2.0	Date effective: 30/10/23
Specification of Fly Wheel (outer) for Tamping Express/CSM (Part no. 2E22.10A)			



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**SPECIFICATION NO TM/HM/6/137 REV-3**

**SPECIFICATION OF FLY WHEEL (OUTER) FOR TAMPING EXPRESS/CSM  
(Part no.2E22.10A)**

DTM-VI	EDTM	Page 1 of 3
Prepared By:	Issued By:	

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## SPECIFICATION NO.TM/HM/6/137 REV-3

### SPECIFICATION OF FLY WHEEL (OUTER) TAMPING EXPRESS MACHINE/CSM (Part no. 2E.22.10A)

- 1.0 Scope:** This specification covers the dimensional functional and material requirements with testing criteria of Fly Wheel (Outer) of tamping express machine/CSM. This specification may be treated as provisional subject to modifications based on service performance.
- 2.0 Reference documents:** Following IS Specifications 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) IS:2062 -1992 - Steel for general engineering purposes - specification.
  - ii) IS:1608 -1992 - Mechanical testing of metals - tensile testing.
  - iii) IS:77-1976 - Linseed oil for paints - specification.
  - iv) RDSO Drg. No.TM/0405 REV-3 Fly Wheel (Outer) of Tamping Express/CSM
- 3.0 Functional requirement:** Fly wheel (Outer) shall be capable to provide dynamic uniformity to vibration shaft on variable load. All surfaces meant for machining shall be finished as mention in the drawing no TM/0405 REV-3.
- 4.0 Dimension & Tolerance:** Dimensions and tolerances of the Fly wheel (Outer) shall be as mentioned in RDSO drawing no.TM/0405 REV-3.
- 5.0 Material:** The Fly wheel (Outer) shall be made from Mild Steel of Grade A or B Conforming to IS:2062-1992 having minimum tensile strength 410 MPa i.e. 410 N/mm sq. with minimum percentage elongation of 23.
- 6.0 Manufacturing Process:** Fly Wheel (outer) shall be made by forging or machining process from plate /billet of specified material.
- 7.0 Marking:** Month and year of manufacture and manufacturer's code / identification shall be engraved / embossed on the Fly wheel (Outer).
- 8.0 Inspection And Acceptance Criteria:**
- i) Each components offered by manufacturer shall be checked visually for their surface finish, freedom from defects like porosity, cracks, improper edges etc. Machined surface shall be checked by any suitable pneumatic or electronic equipment.
  - ii) The component found suitable after visual inspection, shall be checked for their dimensions as per relevant drawing.

DTM-VI	EDTM	Page 2 of 3
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- iii) Supplier shall produce the certificate that the raw material used for manufacturing of the component conforms to the Mild Steel Grade A or B of IS:2062-1992 as mentioned in para 5.0.
- iv) Any deviations in the test result from the requirement of the specification and drawing shall be the cause of rejection.

**9.0 Packing and Protection:** Each component shall be protected with one coat of boil linseed oil conforming to IS: 77-1976 (linseed oil for paint) and shall be packed in card board case.

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DTM-VI	EDTM	Page 3 of 3
Prepared By:	Issued By:	