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Specification of Pin for roller clamp of CSM (Part no. E150.15)			



RESEARCH DESIGN AND STANDARD ORGANISATION
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SPECIFICATION NO.TM/HM/6/566
SPECIFICATION OF PIN FOR ROLLER CLAMP OF CSM
(PART NO. E150.15)

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- 1.0 Scope:** This specification covers the dimensional, functional and material requirements with testing criteria of Pin for roller clamp CSM. This specification may be treated as provisional subject to modifications based on service performance.
- 2.0 Reference documents:** Following documents 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) BS:970 - 1991 – Case hardening Alloy Steel - specification.
 - ii) IS:77-1976 - Linseed oil for paints - specification.
 - iii) RDSO Drg. No.- RDSO/TM/16/24 Pin for roller clamp CSM.
- 3.0 Functional requirement:** It is provided between machine body and roller to provide the rotational motion. All surfaces meant for machining shall be finished as mentioned in the drawing no. RDSO/TM/16/24.
- 4.0 Dimension & Tolerance:** Dimensions and tolerances of Connecting Piece shall be as mentioned in RDSO drawing no. RDSO/TM/16/24.
- 5.0 Material:** The Pin for roller clamp shall be made from case hardening alloy steel grade 815M17 (En-353) conforming to BS:970-1991–Case hardening Alloy Steel.
- 6.0 Manufacturing Process:** Pin for roller clamp shall be made by forging and machining process of specified material.
- 7.0 Heat treatment:** Pin for roller clamp shall be heat treated with any suitable methods to achieve case hardness 50 to 52 HRC.
- 8.0 Marking:** Month and year of manufacture and manufacturer's code / identification shall be engraved / embossed on the non-functioning surface of Pin for roller clamp.
- 9.0 Inspection and Acceptance Criteria:**
- i) Each component offered by manufacturer shall be checked visually for their surface finish, freedom from defect like porosity, cracks, improper edges etc. Machined surface shall be checked by any suitable pneumatic or electronic equipment.

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- ii) The component found suitable after visual inspection shall be checked for their dimensional characteristics as per relevant drawing.
- iii) Supplier shall produce the certificate that the raw material used for manufacturing of the component conforms to material specified as mentioned in Para 5.0.
- iv) Minimum one or 2% of sample randomly picked up from each lot of consignment shall be checked for their hardness as per para no.7.0.
- v) Minimum one no or 2 % sample of component randomly picked up out of each lot of consignment and shall be subjected to chemical composition test. The consignee shall test the material for chemical composition at his laboratory or get the material tested in a reputed (NABL accredited or accredited by other international body like APLAC, MRA, ILAC etc) laboratory having proper facilities for testing. Before sending the samples for testing, the same shall be duly sealed and secret coding shall be done.
- vi) Any deviations in the test result from the requirement of the specification and drawing shall be the cause of rejection.

10.0 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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