

RAIL COACH FACTORY, KAPURTHALA

SPECIFICATION FOR PRE-ASSEMBLY MACHINE FOR FERRULE CRIMPING

Specification No. Mech/M&P/2900/GM/02

1.0 IMPORTANT INSTRUCTIONS TO TENDERERS FOR FILLING TECHNICAL BID

- 1.1 Bidders are required to give clause wise comments on the technical specifications, confirming compliance/non-compliance with details of deviations if any along with their effect on the performance. Back references to be avoided, offers are likely to be ignored in case of non-compliance of these instructions for furnishing the information.
- 1.2 Unless otherwise stated, latest alterations/ revisions of specifications/ standards/ drawings shall be applicable. In respect of safety standards and environmental standards relevant to the machine, the machine manufacturers shall ensure compliance with international (CE/ISO/DIN/JIS)/National standards (IS) (where applicable).
- 1.3 Tenderers should offer and quote for all the specified concomitant accessories, as these are considered essential for commissioning and utilization of the machine. Even if bidder does not recommend the purchase any of these accessories, the price must be quoted for comparison purposes and their recommendation/suggestion indicated in the offer. Tenderers should also quote for optional accessories, spares and consumable spares as asked in the specifications.
- 1.4 In case, any item is required in sets, please specify nos./pieces per set. This is essential for proper technical evaluation of the offer. Offers received without this may be considered as incomplete and liable to be rejected.
- 1.5 The bidder should quote only for the specified make of sub-assemblies and equipment wherever specified. Makes of sub-systems other than the specified ones will normally not be acceptable. In case, some other make is quoted, specific reasons for the same including its features/advantages over specified makes must be brought out in the offer.
- 1.6 In case there is a contradiction in any information provided (some parametric values given in the specification and those given in the brochure or some other document enclosed by the tenderer), unless specifically mentioned in the deviation cum confirmation statement the values as given in the specification shall be taken as confirmed by the tenderer and offer evaluated accordingly.
- 1.7 The Purchaser may accept internationally accepted alternative specifications which ensure equal or higher quality than the specifications mentioned in the Technical Specification. However, the decision of the Purchaser in this regard shall be final.
- 1.8 Purchaser reserves the right to verify the details submitted by the bidder by actual site visits.

2.0

DESCRIPTION:

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Pre-Assembly Machine for Ferrule Crimping with all the standard accessories as per Specification.

3.0 SCOPE OF SUPPLY

The scope of this specification covers design, manufacture, supply commissioning and proving out of Pre-Assembly Machine for Ferrule Crimping at Rail Coach Factory, Kapurthala.

However, successful bidder shall submit their drawing of Pre-Assembly Machine for Ferrule Crimping and get approval of the consignee before the manufacturing of Pre-Assembly Machine for Ferrule Crimping

4.0 PURPOSE

The Pre-Assembly Machine for Ferrule Crimping is required for crimping of Ferrules of brake pipes of coaches in Furnishing Shop of Rail Coach Factory, Kapurthala.

5.0 GENERAL TECHNICAL DETAIL

5.1 The portable ferrule crimping machine should be very much simple in its design and easy to operate.

5.2 The machine design must be compact and all its drives and controls should be built into the machine body itself.

5.3 The body of the machine should be used to house hydraulic components and all electrical controls must be housed in dust proof cabinets and bolted to the main body.

5.4 The Hydraulic system should be covered to the extent possible to avoid it from coming in contact with open ambience.

5.5 Demonstration of machine is necessary before finalizing the case.

5.6 The components those need servicing or supervision must be situated at locations in such a way that the replacement or servicing is easy.

5.7 The following die sets shall be supplied along with the machine for proper utilization;

- i) O.D 28 mm-----30 sets
- ii) O.D 22 mm-----10 sets
- iii) O.D 18 mm-----20 sets
- iv) O.D 10 mm-----10 sets

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Leading parameters (Schedule-I): The machine shall conform to the following major & other parameters.

S.no	Description	Specified Value
1.	Hydraulic Cylinder Bore Dia	Ø63mm
2.	Hydraulic Cylinder Rod Dia	Ø45mm
3.	Hydraulic Cylinder Stroke	50mm
4.	Maximum Working Pressure	250bar
5.	Pump Capacity	1.5L/min
6.	Electrical Motor	1.1kw 3-Phase1450rpm,415V
7.	Height x Depth x Width in mm	900 x 420 x 750
8.	Pressure For 10 O.D. Tube	Set@65bar
9.	Pressure For 18 O.D. Tube	Set@100bar
10.	Pressure For 22 O.D. Tube	Set@175bar
11.	Pressure For 28 O.D. Tube	Set@210bar
12.	Control Through	Push Button Panel + Hand Lever Operated DCV

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6.0 DEVIATION:

Any deviation from the above stipulations shall be brought out clearly giving advantages of the proposed deviation and approval shall be taken from Dy.CME/Fur. before supply of material to RCF.

7.0 PROVEN DESIGN & SYSTEM CAPABILITY :

The system offered must be of proven design incorporating latest features. The bidder shall provide sufficient evidence that he is a reputed / Proven manufacturer and has experience in manufacturing & supply of similar system. He is required to enclose along with the offer, his performance of last five years mentioning purchaser's name & address for this purpose. In case a sole distributor is submitting the bid on behalf of the proven manufacturer, an authorization signed by the proven manufacturer should be submitted.

8.0 OPTIONAL ACCESSORIES:

In case bidder desires to suggest any accessories to achieve higher performance and/ or better quality levels, the same shall be clearly explained and quoted separately as Optional accessories. The purchaser has the discretion to order or not to order.

9.0 GENERAL CONDITIONS:

The machine should be capable of operating in severe workshop condition of dust temperature between 0°C to 50°C and humidity up to 98%. The system should be capable of working under these conditions continuously on two shift basis.

10.0 SPARES:

The tenderer should furnish details of spares covered under warranty.

The tenderer should also furnish the price list of spare parts required for two years normal maintenance of the equipment.

11.0 COMMISSIONING AND PROVING OUT:

The successful bidder shall have to commission the Pre-Assembly Machine for Ferrule Crimping within one month from the date of receipt at RCF, Kapurthala.

The successful bidder shall arrange the commissioning and proving out of Pre-Assembly Machine for Ferrule Crimping at Rail Coach Factory, Kapurthala (Punjab) and after successful commissioning, will demonstrate the performance

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of the Pre-Assembly Machine for Ferrule Crimping to the consignee as per contract.

12.0 TECHNICAL LITERATURE:

One copy of the printed illustrative catalogue showing features of the Pre-Assembly Machine for Ferrule Crimping.

The successful bidder will have to furnish for 2 copies (1 hard & 1 Soft) of the spare parts catalogue giving the part List number of each component with exploded views and assembly drawings, maintenance manual, trouble-shooting guide, operational manual of the Pre-Assembly Machine for Ferrule Crimping.

13.0 WARRANTY:

As per IRS terms and conditions of the contract

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