

LAKSHMI BRAND COMPRESSED AIR /PETROL PREHEATING MACHINE

(Model No. : LIC/CAP)



Introduction :-

Conventional preheating system that used a petrol tank and drum vaporizer need longer preheating time i.e. 12 minutes for 60 kg & 10 minutes for 52 kg rails which requires longer block periods and width of the heat affected zones is wider and the preheating process is also not uniform due to manual operation. To eliminate all these deficiencies “LAKSHMI MEERUT” has developed a fully mechanized compressed air petrol preheating machine which allow the preheating of the rails ends uniformly & reduce the preheating to 4.5 minutes for 60 kg & 4 minutes for 52 kg rails and the width of the heat affected zone is also narrowed.

Salient Features:-

- (1) Light weight safe, easy to operate.
- (2) Reduces Block period.
- (3) Improved metallurgical characteristics are created as the heat affected zone in the weld is narrowed.
- (4) Machine requires petrol as fuel, hence oxygen and propane cylinders are not required to be carried to site.
- (5) Uniform Preheating.

Training:-

Regarding use & maintenance& upkeep will be imparted at our works at Meerut to your representative free of cost.

Technical Data:-

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|--------------------------------------|-----------------------------|
| (1) Capacity of engine | : 3 Hp at 3600 rpm |
| (2) Petrol consumption | : 500 cc per joint |
| (3) Max. Air Pressure | : 0.5 Bar |
| (4) Air discharge | : 70 M ³ /hr |
| (5) Operating pressure of preheating | : 0.15 to 0.2 Bar |
| (6) Petrol tank capacity | : 10 litre |
| (7) Over all weight | : Approximately 100 kg. |
| (8) Man required for operation | : 02 Nos |
| (9) Block requirement | : Traffic block is required |
| (10) Recommended spares | : Rubber pipe one set |

Time taking for Preheating:-

S.No.	Rail Section	Preheating Time
1.	UIC 60 Kg/m	4 1/2 minutes
2.	52 Kg/m	4 minutes
3.	90 R	3 1/2 minutes
4.	75 R	3 minutes

***Note:-** For Head Hardened Rails after welding rail head & heat affective zone are require to be air cooled to bring down rail head temperature from 1000°C to 400°C within 8 minutes. We have specially designed a cooling head which can be attached to this machine to bring down rail head temperature from 1000°C to 400°C within 8 minutes.