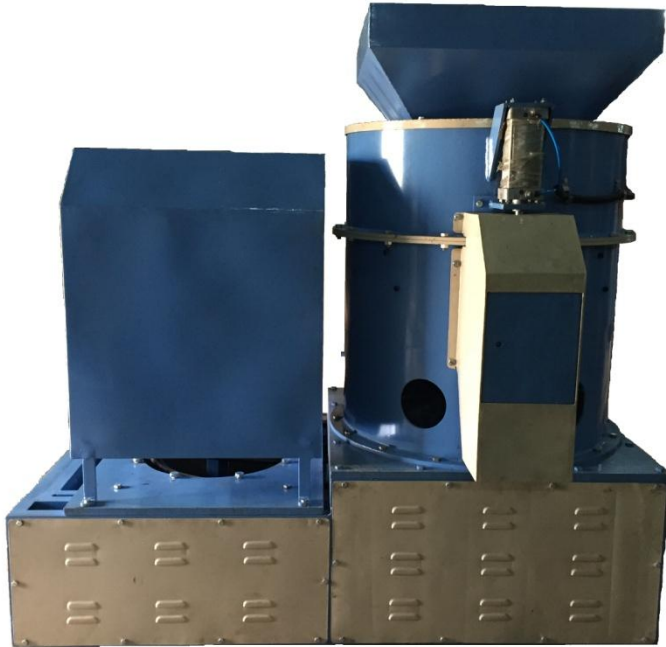


Maintenance/User Manual

The Machine consisting of: Round powdered coated mild steel housing. Fan with motor



Material: Housing mild steel and Stainless Steel Housing

Specifications:

- Inner Diameter (ID):- 39 inches,
- Height :- 82 inches
- Length : 85 inch
- Width :44 inch
- Drum Material:- Mild steel and Stainless steel (Thickness 10mm)
- Bearing Housing type:- 3 bearings
- Power Consumption Capacity:- 150 HP
- Output: - 300-400 kg/hour.
- Water cooled bearing
- Pneumatic door opening

General Points for Dos and Don'ts

This maintenance manual is issued to give the operator and maintenance staff a general outline of the methods and function of the machine maintenance. It also aims to ensure that customer obtains maximum services and the best results in most efficient manner. Before attempting to perform maintenance on this machine you should read this manual carefully and become familiar with maintenance procedure and schedules so you may perform them properly and safely. Very often well qualified maintenance people are hampered by lack of familiarity with the machines they seldom have opportunity to work with, more than by lack of technical knowledge of the components and devices that comprise the machine. It is therefore assumed that a detailed description of such matters as, programming practices for troubleshooting or maintenance of customer specified components and devices would not be needed herein. This assumption is made with the understanding that application of these components and devices are not particularly unusual or specialized.

This manual is further intended to be useful resource when training operator and maintenance personnel.

Altering any portion of this manual is prohibited unless approved in writing by the Ludhiana Iron and Steel Company . Failure to obtain written approval will exempt Ludhiana Iron and Steel Company of any responsibility and/or liability regarding the operation and maintenance of machine.:

Maintenance Instruction

▲ DANGER

Trained, qualified and authorized personnel must only carry out maintenance and repair operations.

▲ CAUTION

Machine has some critical part like bearing with get heated due to operation so must be kept in cool condition .

These cannot be kept in dusty condition and c. Hence regular cleaning of the machine is recommended.

▲ DANGER

For any Maintenance job either Preventive or Break down the Safe Maintenance Practices should be followed. In any case no maintenance shall be conducted in ON condition

The Preventive Maintenance schedule as specified by manufacturer should be preferably put to practice.

⚠ DANGER

Never adjust the machine components when it is operating.

⚠ WARNING

For any modifications consult the Technical Services of Ludhiana Iron and Steel Company.

⚠ DANGER

Waiting time of Ten Minutes should be practiced for any electrical job on Electrical Panel after it has been stopped. This is to discharge all the residual electrostatic charges in the system if any.

⚠ WARNING

The Maintenance Engineer, specifying the Nature of Job to be carried out and Type of maintenance, should sign an appropriate work permit

⚠ WARNING

He should be physically and mentally fit to carry out the job. His fitness level acceptance will explicitly depend on the Law of the land where the Machine is installed.

⚠ WARNING

Do not bypass the Work permit procedure. Company will not be responsible for any injury, which happens there after due to unsafe maintenance practices.



Proper Tag Plate should be used when the Machine is under Maintenance.

Note:



Check the Earthing resistance before carrying out any maintenance job.



Note: - Before servicing check coolant , Air and electrical supply are in OFF conditions



Before Re-energizing Machine

- Repeat all guarding and safeguards.
- Remove all nonessential tools and equipment.
- Make sure all personnel are clear of machine.
- Remove energy control devices in reverse order of lockout.
- Inform affected employees that servicing and maintenance are completed.
- Close the work permit after job completion.

Remove the Maintenance TAG OUT.

Installation

- Mount axial unit vertical only.
- Units can be mounted directly on top of machines
- Ensure that there is 40 inches (1 meter) free space above unit for air exhaust & maintenance
- Metal ducting or flexible hose can be used.
- Check the tightness of nuts and bolts
- Give Pneumatic connection the pressure shall be minimum 60 bar
- Water connection for cooling of bearing shall be given in inlet and outlet as given on machine
- Check motor rotation.
- Motor connection shall be done as per Circuit Diagram
- Foundation shall be checked for proper strength

Maintenance

- The maintenance period will depend on the type of load on machine and hours of use
- Inspect the unit weekly and monthly
- For Electric connection and connector Kit for carbon deposit
- For Greasing with NLG 1 3 *NLGI grade*
- Check for tightness of nuts and bolts
- Tightness for Belt on weekly basis
- Sharpness on Blade (fan) on **daily basis**