

APPLICATION CASE STUDY



DOC.NO. : AMTCS-28

- HOST ORGANISATION** : TISCO Ltd., Jojobers Cement Plant , Jamshedpur
- INDUSTRY** : CEMENT
- APPLICATION** : CEMENT PACKING MACHINE
- OBJECTIVE** : PRODUCTIVITY ENHANCEMENT
- PREVIOUS SYSTEM** : DOL starting with Variable Gear for speed change.
For speed changing operation mechanical person was required to change physically the gear on machine. Operation control was dependent on manpower and controlled from machine location in plant rather than control room.
- PROBLEM** : Because of manual gear changing used, special manpower required to be deputed every time to change the speed. More over, variable gear has more maintainance cost.
- NEW SYSTEM** : AC Variable Frequency Drive
With AC variable speed drive control of speed is with operator in control room from speed setting potentiometer mounted on AC drive.

The variable gear was put into a fixed gear position and speed change obtained through control room AC drive only.
- MERITS OF NEW SYSTEM** :
1. Smooth speed variation
 2. Ease of operation from control room.
 3. No dependancy on manual labour.
 4. More productivity of mechanical department.

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