

Case Study– Can Drying Machine - SPM

Special Purpose Machine Design of Can Drying for Food Industry



Business Challenges

- Scope of this project is to design a machine for drying pet food cans.
- Machine to be designed to handle two separate product line at the same time.
- Machine to be fool proof to handle two products without mixing them.
- Machine to be capable to dry efficiently over and under the high speed Conveyors.
- Aggressive timeline to execute the project.



Technosoft Solution

- General arrangement layout for all modules.
- Cost effective drive mechanism concept to maintain the constant speed for the main and follower conveyor.
- Traditional design calculations for bearings, motors and gearbox selection etc.
- Maximum use of 'off the self ' bought out parts and In-house standard stock items resulting in low cost of manufacturing.
- Identical part design for low cost for manufacturing.
- Selection of the bought out item and spares based on the easy availability at end customer end.



Business Impact Delivered

- Aggressive timeline achieved.
- Prompt delivery of the General Layout for approvals.
- Design Calculations for major machine elements.
- Close co-ordination with the customer for first time right design approach.
- 3D CAD, Manufacturing drawings , BOM & purchase parts specification

