

APPLICATION CASE STUDY



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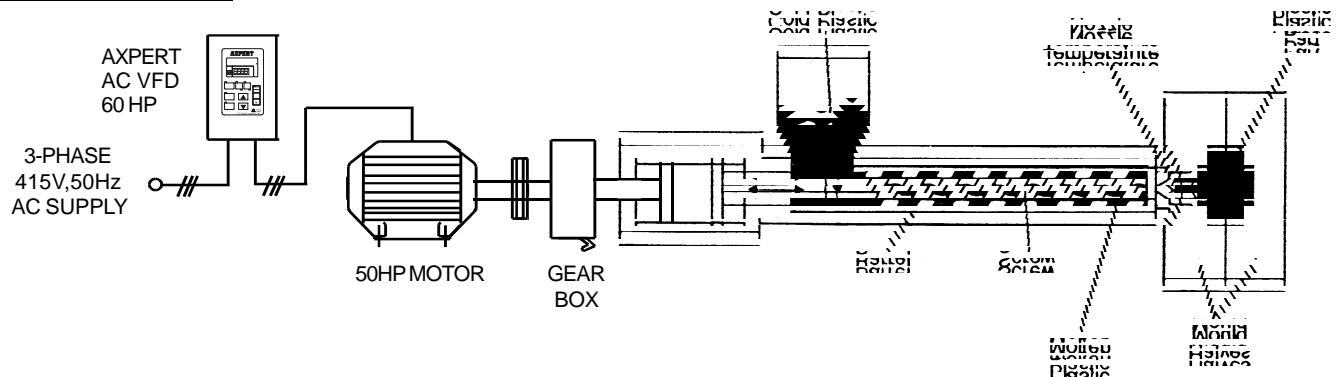
HOST ORGANIZATION : GILT PACK, (PITHAMPUR), INDORE.
INDUSTRY : PLASTIC
APPLICATION : PLASTIC EXTRUDER MACHINE (Make : J.P. Industries)
PREVIOUS SYSTEM : EDDY CURRENT DRIVE
50 hp ac motor is directly connected to eddy current drive for the speed control of main screw of extruder machine through gear box.

PROBLEM OBSERVED :

1. Old technological eddy current drive was inefficient & consuming excessive energy.
2. Frequent mechanical & electrical breakdown of system results into production loss.
3. Quality of final product affects due to input supply fluctuations.
4. Speed variation in eddy current drive is upto limited rpm

PRESENT SYSTEM : 50 HP AXPERT drive is directly connected to 50 hp motor & motor is driving the main screw of extruder machine through gear box.

BLOCK DIAGRAM :



MERITS OF NEW SYSTEM :

1. Efficiency of the system improved by 30%
2. Reduced mechanical & electrical maintenance of the system.
3. Improvement in quality of final product due to smooth & precise speed control through AXPERT drive.
4. Motor is electronically protected by AXPERT drive.
5. No wastage of material during starting of the machine.

ECONOMICAL ANALYSIS :

Finally with the usage of ac drive starting current kick & unnecessary westage of material was reduced & also improvement in quality of final product due to accurate & precise speed control of the system, hence the total efficiency of the system improved by nearly 30%.

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