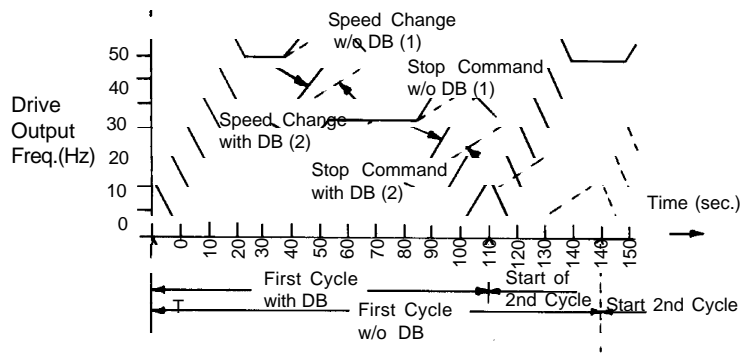


APPLICATION CASE STUDY



DOC.NO. : AMTCS-27

- HOST ORGANISATION** : TECHNOFOUR, PUNE (OEM)
- INDUSTRY** : MACHINE TOOL
- APPLICATION** : CNC MACHINE
- PREVIOUS SYSTEM** : The manually operated old lathe machine being operated with direct on line AC motor. Braking of high inertia load was done by using a DC injection braking separate unit.
- PROBLEMS OBSERVED** :
1. While braking through injecting DC into winding of AC motor results into heating of motor winding.
 2. Change over from AC to DC supply was electromechanical which was not adequate and was costly affair
 3. For smooth finishing different speed is required which was made by changing the pulley ratio
 4. Since continuous variable speed is not available, on one speed all jobs were machined and then speed changed to next and again all job machined. So quality was poor as many times the job is loaded or not loaded on machine.
- NEW SYSTEM** : CNC used in machine for automization, in which speed profile achieved by Axpert AC variable speed drive



SPEED PROFILE

- MERITS OF NEW SYSTEM** :
1. Productivity increase due to one job completed at a time by speed change flexibility through AC Drive.
 2. Automation through CNC machine
 3. Reduce production cycle time.
 4. Precise job finishing & quality improvement.
 5. No motor heating problem due to D.C. dynamic braking through drive.

2171 West Park Court, Suite # G Stone Mountain, GA. 30087

Phone: 770-469-5240 Fax: 678-894-4043

E-Mail : info@amtechdrives.com Website: www.amtechdrives.com