



Factors Influencing the Choice of Electrical Drive

1. Steady state Operation
2. Transient Operation
3. Related with Source
4. Need of Cost
5. Life period of the Drive
6. Location & Environment
7. Flexibility
8. Reliability
9. Space & Weight



1.Steady State Operation

- Nature of speed torque
- Range of speed
- Duty cycle
- Speed fluctuation
- Speed regulation



2. Transient Operation

Transient is nothing but switched from one condition to another condition by change in applied voltage or change in any one of the circuit element

- Acceleration
- Starting
- Braking
- Reversing



3. Related with source

- Voltage Fluctuation
- Power Factor
- Harmonics

4. Need of cost



4. Need of cost

The economy is the main factor for all process while selecting the electrical drive for specific applications

- Initial Cost
- Running Cost
- Maintenance Cost



5.Life Period of the Drive

6.Location & Environment

For example drives may be adopted like coal mains rolling mills and etc..

7.Flexibility

8.Reliability

9.Space & Weight