

Product Name :
Bench For The Study Of Direct Current Machines

Product Code :
CHINAELABC4040002



Description :

Bench For The Study Of Direct Current Machines

Technical Specification :

The DC machines are driven from a DC power supply and they are the most versatile of all rotating electrical machines. Their speed can be easily adjusted in very fine increments ranging from standstill to rated speed and even above and their construction is made rather complex than their AC counterparts by the fact that they need a commutator, which reverses the direction of current and fluxes to produce a net torque.

All the DC machines have a reversible behavior: they are motors up to a frequency that is characteristic of the construction parameters and is said synchronism frequency, beyond which they behave as generators. The DC motors are used in a wide variety of industrial drives, such as robots, machine tools, oil drilling rigs, mining, automotive systems, etc. On the other hand, DC generators are still in use in some power generating plants. The real difference between DC motor and DC generator is the direction of power flow. The electric machines bench has been designed to satisfy the following basic requirements:

The number of groups of students who must work simultaneously

The plan activities

The economic advantage

The characteristic key of this bench is its total modularity which means:

To couple each motor with the electromagnetic brake

To couple each generator with the prime mover

To be able to buy the bare essentials

To configure complete solutions without creating duplication of equipment



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