

Slip Clutches and Brakes



Valcor Engineering Corporation

DESCRIPTION

Unlike standard rotating shaft clutches and brakes which provide for starting and stopping the motion of a rotary shaft, Slip Clutches and Brakes control the speed and braking force of the output shaft in a motor driven drive train. A metallic disc is drawn or forced axially into engagement with a ring of friction material. Valcor's TS "friction type" series of Slip Clutches and Brakes are designed as an economical alternative to hysteresis type devices. Valcor offers custom designed solutions for any slip clutch and/or brake.

APPLICATION

Slip clutches and brakes applications include:

- Tension control systems on packaging, winding and unwinding equipment
- Factory Automation
- Spacecraft and Aircraft Systems
- Business Machines
- Printing equipment including 3D printers, copiers, and printing presses
- Conveyor Systems

FEATURES

- Modular construction
- Lower drag torque (improved low level control)
- Smooth electrically controllable torque
- Vibration-Proof epoxy resin encapsulated field coil
- Fast Response Time, as fast as 25 mS on some models
- Available in a wide range of sizes with numerous mounting arrangements



Contact us today to see how we can help on your next project.

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Valcor specializes in custom designs. Below are just a few examples of styles we have created in the past for our customers.

AVAILABLE STYLES

Series	Style
TS-BEC	Brake, Flange mounted set screw mount to shaft
TS-SEC	Clutch, Tab mounted keyed to shaft
TS-SBEC	Clutch, Tab mounted keyed to shaft