# SI METRIC Spring Wrapped Slip Clutches

**FEATURES:**

- Long life under continuous slip conditions
- Unidirectional or bidirectional operation
- Same or different clockwise and counterclockwise torques
- Precise and stable limit torque calibration (range: 0.007 to 4.24 N • m)
- Same torque at breakaway as at high slip velocities
- Mounting provisions for gear, sprocket or pulley
- Corrosion-resistant materials

**APPLICATIONS:**

- Tension control of film or tape drives
- Transmission overload protection

**SPECIAL DESIGNS:**

The standard line of slip elements provides a wide selection of limit torques, sizes and coupling arrangements. In addition, our engineers will modify designs to meet your specific requirements in such areas as:

- Configuration
- Driving arrangement
- Limit torques from a fraction of a N • cm to many N • m's
- Calibration of torque to a tolerance of ± 5%
- Different limit torques for the two directions of rotation
- Spring windup and limit torque combination. The spring action of the slip element is useful for tensioning of tape and prevention of slack loops.

*Stock units are calibrated with equal clockwise and counterclockwise slip torques corresponding to the tabulated Upper Limit Torques. Other torques are readily available from full, down to 1/8 of the Upper Limit Torque for each model. Torque values are independent of each other for clockwise and counterclockwise rotation, and may be specified the same or different for the two directions.

**All clutches in this series have a pilot diameter "$D_3$" and three tapped holes "$T_1$" for mounting a gear, sprocket or pulley on the input hub. Screw penetration into the clutch housing must not exceed the depth specified in column "$T_1$". Concentricity of pilot diameter "$D_3$" to bore "d" is 0.025 T.I.R. max.

All slip clutches are designed for long life under continuous slip conditions. The useful life of these elements is a function of the transmitted torque and slip speed.