

Why RollEase Clutches?

- All clutches are based on RollEase's proven multi-spring design
- Manufactured to tolerances within 2/1000 of an inch (1/20mm), RollEase clutches never need adjusting
- All clutch components other than springs are made of a glass reinforced thermopolymer to ensure years of trouble free performance and prevent oxidation of external materials

Technology inside the R-series clutch

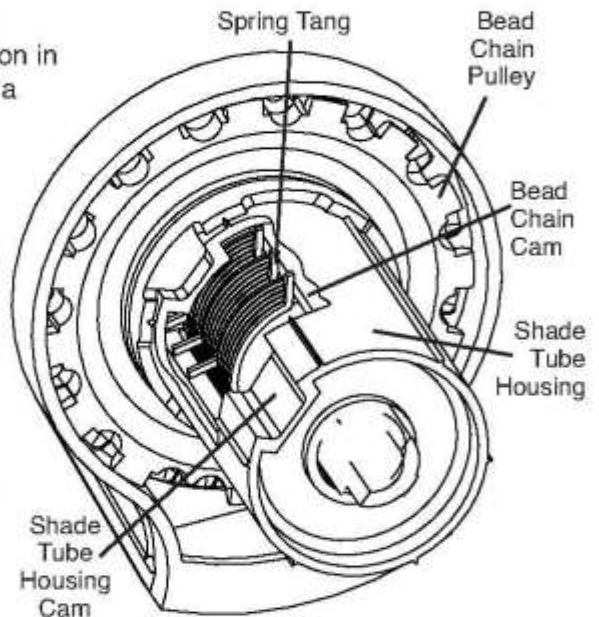
RollEase pioneered the roller shade clutch and has perfected the manufacturing process of operating systems since their introduction in the 1980's. RollEase has more than 25 patents for invention with a full time staff of design engineers working exclusively on improvements and extensions of existing systems as well as the development of new operating systems.

HOW IT WORKS

A clutch utilizes a wrap spring which can either be tightened or loosened on an inner core. Push on one side of the spring tang and the spring diameter decreases, locking any movement. Push the tang on the other side and the spring opens, allowing free shade movement.

The clutch is divided into two separate interior, interlocking cores, the first of which is on the outside (shade tube housing) where the roller shade tube is attached (fabric is rolled onto the tube). The inner core is attached to the bead chain pulley. Both cores have cams which are arranged to push on a particular side of the spring tang.

- The pulley core has a cam which is positioned below the spring tangs. When the pulley is moved in either direction (by pulling on the bead chain) it pushes against the spring tang opening the springs diameter and allowing free shade movement.
- Release the bead chain and the spring automatically returns to its original, closed shape, locking the shade in position.
- The shade tube housing has a cam positioned so that the force of the hanging shade pushes on the side of the spring tang locking it tightly to the inner core. The weight of the shade helps keep the shade locked. The more weight on the shade, the tighter the spring locks.



RollEase multi-spring configuration distributes the interior forces evenly over the inner core and offers the industry's smoothest pull. The ratio between the bead chain pulley and the shade tube provides a mechanical advantage allowing the pull forces to raise a shade to be less than the actual weight of the shade.