

CONSTANT FORCE SPRING FOR CARBON BRUSH

Feature:

Motor brush springs are constant force springs that are specially constructed to provide the ideal method of ensuring consistent, dependable pressure to electric motor commutators, we can provide you both single coil constant force springs and twin coil constant force springs for carbon brush.

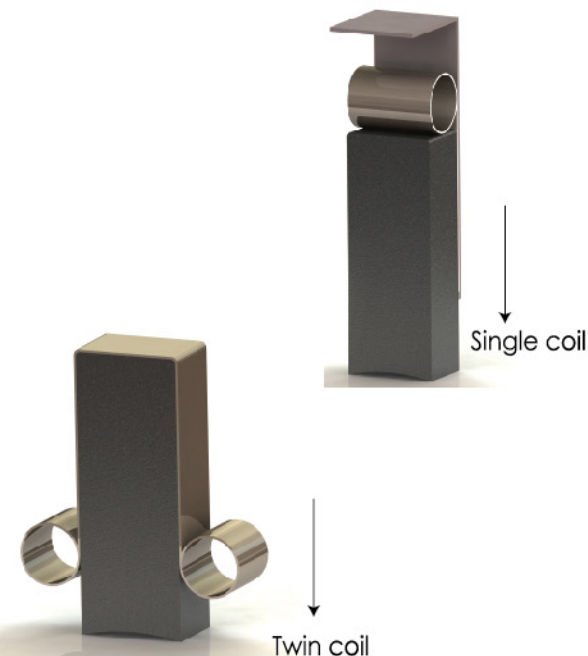
Advantages of Constant Force Spring for Carbon Brush:

1. Constant pressure for commutator in any brush length.
2. Increases brush life, reduces electrical wear.
3. Compact design for overall motor size.
4. Allows longer brushes.
5. Allows larger commutators.
6. Reduces spark, lower influence of electromagnetic interference (EMI)

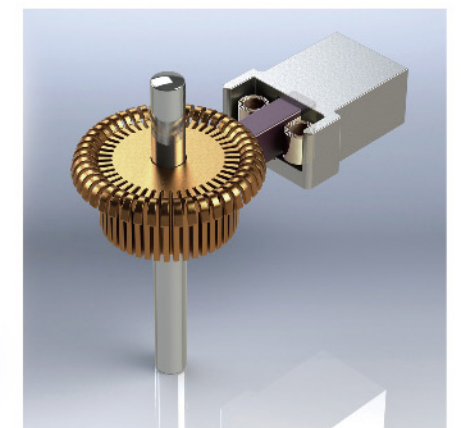
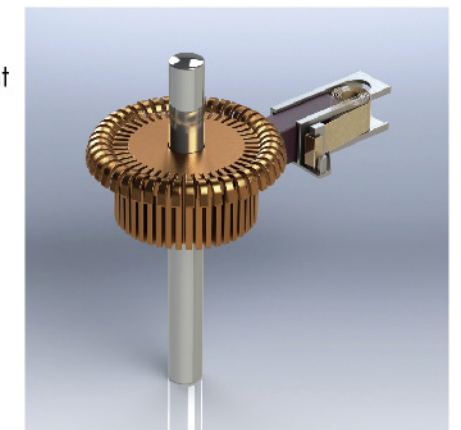
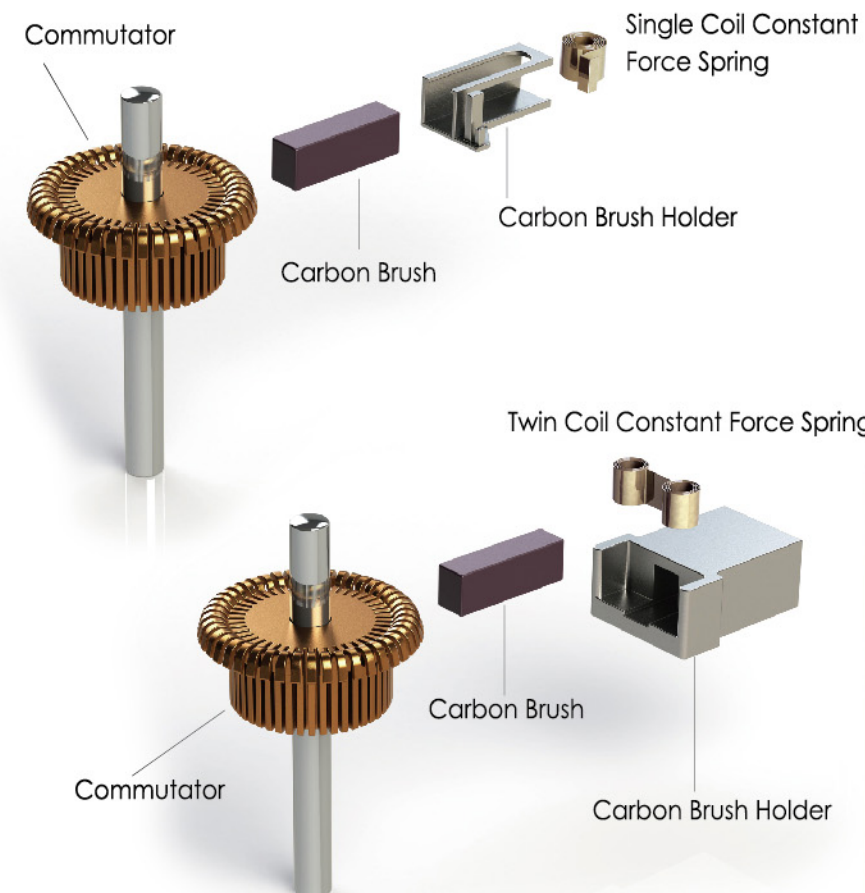
There are a number of different spring design possibilities for a given application, we strongly suggest you to consult with a Ming-Tai engineer early in the design phase.

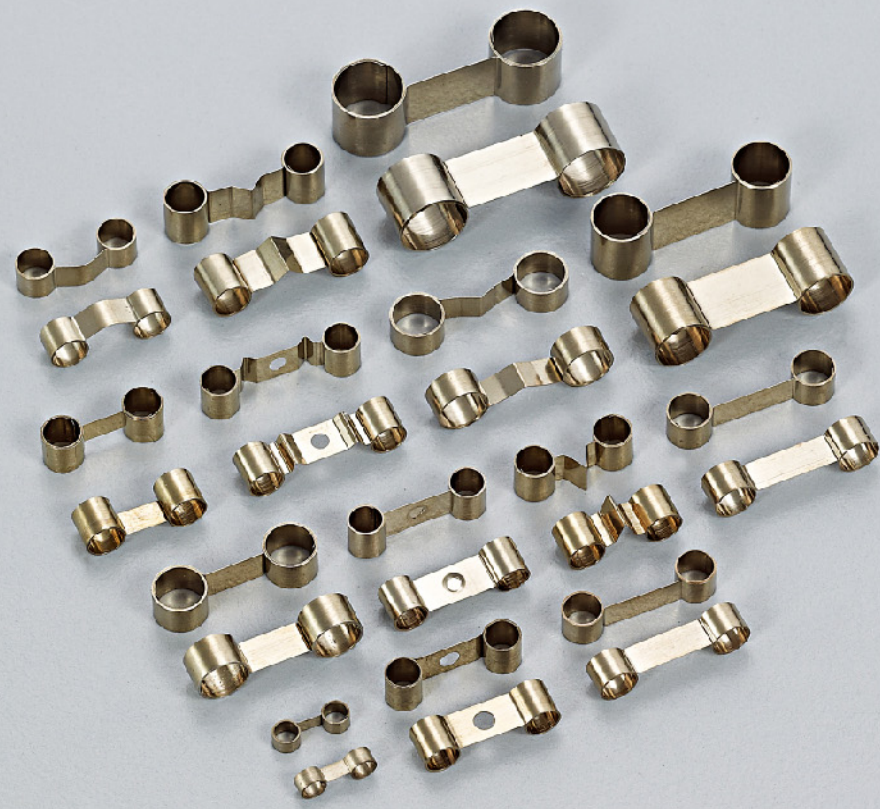
Advantages of Twin Coil Comparing with Single Coil

1. To afford maximum brush length and double the load of single coil.
2. To allows a minimum motor size.
3. To offer better load for its symmetry.



Mounting Example





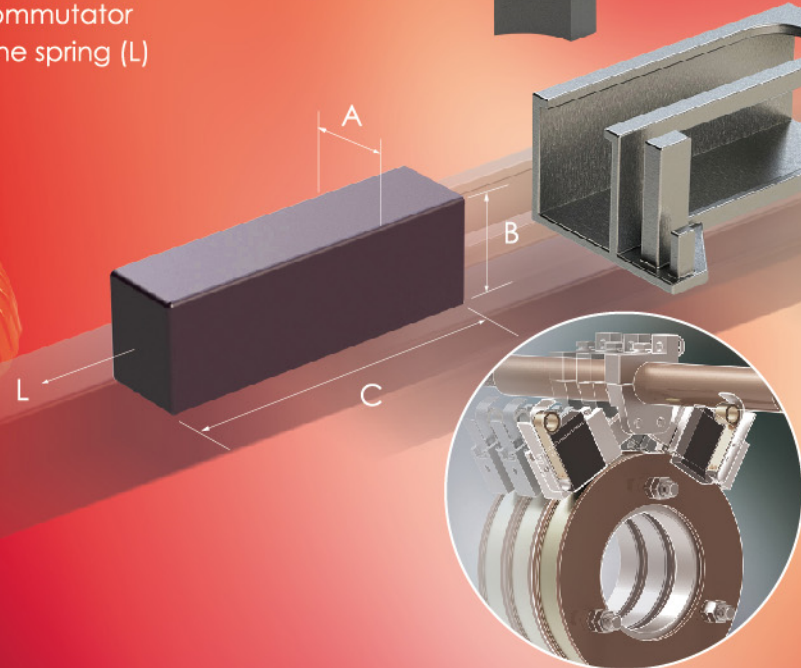
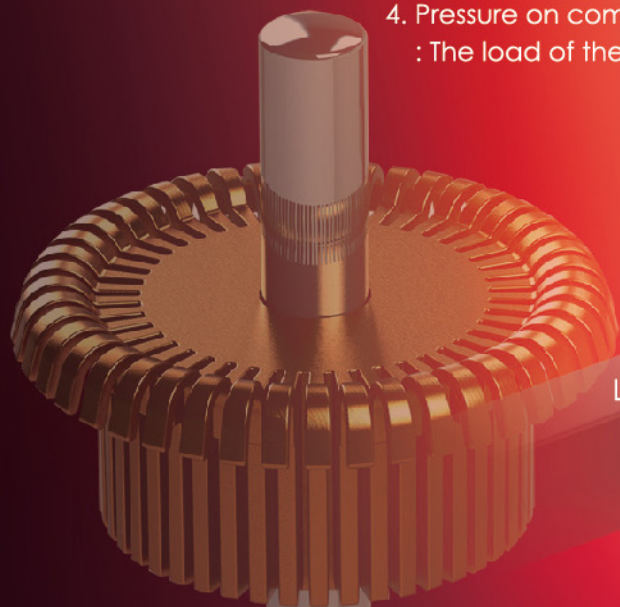
HOW TO CHOOSE SUITABLE CONSTANT FORCE SPRING FOR CARBON BRUSH

Single Coil Type

1. Width of carbon brush (A)
: O.D (D) must smaller than Spring width(A)
2. Height of carbon brush (B)
: Spring width must smaller than brush height
3. Wearing length of carbon brush (C)
: Stroke must bigger than brush wearing length
4. Pressure on commutator
: The load of the spring (L)



Single coil



Twin Coil Type

1. Width of carbon brush (A)
: Spring width must smaller than brush height
2. Height of carbon brush (B)
: Stroke must bigger than brush wearing length
3. Wearing length of carbon brush (C)
: The load of the spring (L)
4. Pressure between commutator and carbon brush (L)
: The load of the spring
5. Mounting room of brush holders (E) and (F)
: O.D. of spring (D) must smaller than both



Twin coil

