

## Review of Compression Helical Spring for Two Wheeler Suspension Systems

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**Abstract**— Present paper reviews the general study on configuration of helical springs. Fundamental of stress distribution and characteristics of helical coil spring has been reviewed. Discussion on parameters influencing the helical spring quality has also been explained. From the study it has been found that weight of the automobile helical spring should be reduced. So the springs are to be designed for higher stress and small dimensions. Finite element modelling brings improvement to the suspension spring analysis. A lot of study has been conducted on the Finite element analysis using ANSYS.

**Key words:** Helical Spring, ANSYS

### I. INTRODUCTION

A spring may be defined as an elastic body, whose expand in size when load applied and regain its original shape when removed. A spring performs many operations taking from exerting a force or torque to store energy. Force applied by a spring can be linear or radial; this force be termed as pull or push. Helical spring also called as closely coiled helical spring when wire of the springs are attached so close that each turn is nearly orthogonal to the axis of helix angle. We can also say that in helical spring helix angle is very small and is less than  $10^\circ$ . The major stresses developed in the helical spring are shear stresses due to twisting. The applied torque can cause a rotation or twist.

Helical springs are flexible components and are regularly utilized as a part of machines. Normally helical springs are delivered by curling steel wire of round or rectangular segment. Wires with little diameter ( $d \approx 8-10$  mm) are basically cold-coiled after heat treatment. Springs are generally tempered with a specific end goal to reduce residual stresses. Springs with greater areas and additionally springs with obligated applications are hot-curved and in this manner heat treated so as to increment in mechanical properties. In view of distinctive applications and took after by them diverse necessities identified with trademark, proportion between greatest burden and transversal measurements, mounting arrangement and so forth an extensive variety of advancements of helical springs are utilized. The development that is moderately new among others is spring machined from cylindrical sleeve. Springs of such types are made with high precision without exhibiting extra stress, separate themselves with high accuracy of characteristics and probability of distinctive mounting courses with co-working segments.



Fig. 1: Closely coiled helical spring.

These springs can be applied in systems where because of certain reasons very small tolerance of positioning is demanded like e.g. in elastic seat of deflecting segments in slide thrust bearings of high overall dimensions. Important advantage of such springs is also possibility of gaining very high stiffness, not possible in case of springs coiled from wire. Besides the advantages presented above, helical springs similar to the ones shown at Figure 1 have also some disadvantages. The main disadvantage of such springs is high (comparing to helical spring coiled from wire with circular section, having the same stiffness and loaded with the same force) level of stresses during work. Also there is a stress fixation in the area of spot where the coils start.

### II. STABILITY OF THE SPRING (BUCKLING)

Clasping of segment is a natural phenomenon. Clasping of section is a recognizable phenomenon. We have noted before that a slim part or segment subjected to compressive loading will clasp when the load surpasses a difficult value. Correspondingly pressure coil springs will clasp when the free length of the spring is bigger and the end conditions are improper to uniformly divide the load up and down the coil perimeter. The coil pressure springs will tend to clasp when the redirection (for a given free length) turns out to be too substantial. Limiting so as to clasp can be anticipated the spring's avoidance or the free length of the spring. The conduct can be described by utilizing two dimensionless parameters, basic length and basic diversion. Basic redirection can be characterized as the proportion of diversion ( $\gamma$ ) to the free length (Lf) of the spring. The basic length is the proportion of free length (Lf) to mean coil measurement (D). The basic redirection is an element of basic length and must be underneath a sure utmost. As could be saw from the figure total strength can be guaranteed if the basic length can be constrained underneath a farthest point. For lessening the clasping impact taking after condition must be fulfilled

$Lf < 4D$ , the crippling load can be given by  $Wcr = K \times KB \times Lf$

Where,  $K$  = spring rate  $KB$  = clasping element

### III. SPRING SURGE AND CRITICAL FREQUENCY

On the off chance that one end of a stress spring is held against a level surface and the flip side is aggravated, a pressure wave is made that goes forward and backward from one end to the next precisely like the swimming pool wave. Under specific conditions, a reverberation may happen bringing about an exceptionally fierce movement, with the spring really hopping out of contact with the end plates, regularly bringing about harming burdens. This is entirely genuine if the inner damping of the spring material is very low. This marvel is called spring surge or just surging. At the point when helical springs are utilized as a part of uses requiring a quick responding movement, the creator must be

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**Michal Rosen-Zvi**



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