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## Flat Strip Springs and Shapes

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### Flat Springs: Flat Strip Springs and Shapes

Flat springs, a common type of spring manufactured from strip material, derive their name from their shape, which generally has a high width-to-thickness ratio. Compared to many other spring varieties, which can feature rounded coil shapes, flat springs feature flat or near-flat coil shapes, as their name suggests. When an external load is deflected onto the spring's flat strips, a flat spring can store and release energy.

Flat springs are available in a wide range of sizes and thicknesses, both of which affect the spring's stiffness. Based on the application, flat springs can be constructed from a variety of materials, including steel, stainless steel, brass, aluminum, nickel alloys, beryllium copper, phosphorus bronze and more. Flat springs are versatile and can be applied in all kinds of contexts, most notably in the automotive industry. In some vehicle suspension systems, for example, flat leaf springs help ensure stability and reduce wear on other parts. Flat springs can also be used in a car's steering and drive axles, exhaust system and seating.



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