Process flow of metal parts for pigtails

Article Overview

The manufacturing of pigtail metal parts involves coiling, forming the pigtail end, and post-processing using specialized machinery for precision and efficiency.

Material Preparation

The process begins with selecting the appropriate metal wire or rod, typically steel or other high-strength alloys, based on the required mechanical properties such as strength, ductility, and corrosion resistance. The raw material is cut to the required length for the coil spring or pigtail component .

Coiling

The wire is fed into a coiling machine that shapes it into a helical coil. For coil springs, the coiler can form one end into a pigtail shape during this stage. The coiling parameters, including pitch, diameter, and number of turns, are carefully controlled to meet design specifications .

Pigtail Forming

After coiling, the pigtail end is formed using a dedicated pigtail forming machine. The workpiece is positioned on the machine, and a forming jig, programmed for the specific pigtail shape, bends the end into the desired configuration. The jig can move in multiple directions to accommodate different diameters, pitch angles, and coiling directions . For automation, the machine can be integrated with the coiler, allowing continuous transfer of the spring for pigtail shaping ....

Article Content

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