

What are the machines and equipment used for making pigtail tips



AI Overview

Pigtail tips are formed using specialized machines such as coil spring pigtail formers, catheter tip forming machines, and industrial pigtail splicers, each designed for precise shaping, bending, or coiling of materials.

Coil Spring Pigtail Forming Machines These machines are used to shape the ends of coil springs into a pigtail configuration. The process is largely automated: the spring is loaded, positioned, and the forming jig bends the end into the desired loop based on a pre-set program. The forming jig can be changed to accommodate different pigtail shapes, and the machine can be integrated with coiling and quenching systems for continuous production. These machines are compact and can handle various wire diameters, making them suitable for automotive, train, and heavy machinery springs.

Catheter and Guidewire Tip Forming Machines For medical applications, pigtail tips on catheters or guidewires are created using thermal tip forming machines. These machines use precise heating, cooling, and pressure to shape thermoplastic materials such as PTFE, PEEK, PVC, and Pebax®. Functions include tipping, bonding, flaring, and tapering, producing specialized tips like soft tips, closed-end tips, and bulbous tips. The machines can handle single or multi-lumen tubing and are designed for high precision and repeatability, often integrating with automation platforms for high-volume production.

Industrial Pigtail Machines In construction, fiber optics, and electrical applications, pigtail machines form loops or coils in steel rebar, wires, or fiber/copper cables. These machines can be fully automatic, semi-automatic, or manual. Fully automated machines use programmable logic controls (PLCs) and sensors to detect material size, apply the correct torque, and produce hundreds of pigtails per hour with consistent quality. Semi-automatic and manual machines offer...

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Fiber Optic Fusion Splicing

Depending on the type of fiber, core or active clad alignment solutions are both effective for pigtail splicing. Also used in inside plant applications, splice-on connectors have become increasingly

pigtail spring machine

The Spring machines feature high precision of feeding, stable and precise shaping as well as novel and attractive appearance. They could be used to produce variety of springs, such as

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