

Price of making pigtail flanges



Article Overview

The cost of making pigtail flanges varies widely, typically ranging from \$50 to several hundred dollars per flange depending on material, size, pressure rating, and machining complexity.

Key Cost Factors

Material Selection: The type of metal significantly impacts cost. Carbon steel (ASTM A105) is the most economical, while stainless steel (304/316) can cost 3-4 times more, and exotic alloys like Duplex or Inconel may be 10-15 times higher due to raw material prices and machining difficulty . **Machining and Labor:** Pigtail flanges require precise CNC machining, including turning, facing, and drilling bolt holes. Machine time is charged per hour (\$45-\$120/hr), and complex geometries or tight tolerances increase labor and machine costs . **Size and Pressure Class:** Larger diameters and higher pressure ratings require more material and longer machining cycles, which increases the base cost non-linearly . **Customization:** Pigtail flanges are often custom-designed for specific piping arrangements. Custom features such as extended weld necks, precise bore diameters, or special bolt patterns add to the cost . **Quality Control and Inspection:** High-quality flanges undergo dimensional verification, sometimes using CMMs, and may require 100% inspection for critical applications. This adds labor and equipment costs . **Tooling and Consumables:** CNC inserts and cutting tools wear faster when machining hard alloys, increasing consumable costs and downtime . **Volume and Yield:** The initial forging weight is purchased, not just the finished weight. Material removed during machining is a sunk cost, affecting the overall price

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