

Juan Piau Highlights Precision Hot Forging for Automotive Repair Tools

Juan Piau Industrial showcases four decades of hot-forging expertise across automotive, hand tool, motorcycle, and custom OEM/ODM applications.

TAIPEI, TAIWAN, August 20, 2026 /EINPresswire.com/ -- A closer look at the hot-forging process behind Taiwan's automotive repair tools, and the Taichung manufacturer that has spent more than four decades refining it.



Taiwan Metal Forging Manufacturer: A Guide to Taichung

In Taiping District, Taichung — widely recognized as Taiwan's largest hand tool manufacturing base — one process quietly underpins much of the region's output: hot forging. It is the technique that turns raw steel billets into the socket wrenches, connecting rods, and specialty tools used by mechanics and manufacturers worldwide. At the center of that process sits Juan Piau Industrial Co., Ltd., a hot-forging manufacturer that has been refining the craft since 1980.

What Makes Hot Forging Different

Unlike casting or cold stamping, hot forging shapes metal while it is heated to a temperature that keeps it soft enough to form under high pressure, yet allows it to retain the internal grain structure that gives forged parts their strength. For components that face repeated mechanical stress — socket wrenches subjected to constant torque, connecting rods absorbing engine vibration, motorcycle chassis parts under continuous load — that structural integrity is not optional. It is the difference between a tool that lasts and one that fails under pressure. This is why hot forging remains the manufacturing method of choice for Taiwan's automotive repair tool industry, and why facilities capable of producing complex, irregular, and precision-forged shapes at scale are in steady demand from OEM and ODM buyers around the world.

Inside the Taiping Facility

Juan Piau Industrial's operation traces back to a small subcontracting workshop founded in 1980 by Mr. Xiao Wanchun, producing forged sockets for the automotive repair tool market. As demand grew, the company relocated twice — first to a 100-square-meter facility on Zhenxing

Road, then in 1988 to its current 300-square-meter site in the Taiping Industrial Zone, where it still operates today.

Over more than four decades, that initial investment of roughly NT\$3 million in a single forging machine has grown into a facility running three complete production lines and four high-efficiency hot-forging machines, representing exceeded NT\$30 million in equipment investment and an annual production capacity that has itself exceeded NT\$50 million.

The company's product mix reflects its automotive roots: roughly 70% of its forged output goes into automotive parts — connecting rods, cylinder heads, crankshaft bearings, gears — alongside hand tools, pneumatic tool components, motorcycle chassis parts, agricultural machinery components, and other custom hot-forged hardware. Quality control runs through 2D manual measuring instruments and digital vernier calipers to hold dimensional tolerances on parts that often have irregular or complex geometries.

"Precision forging isn't just about hitting a dimension on a drawing," a Juan Piau Industrial representative explained. "It's about understanding how a part will actually be used — the torque it will see, the vibration it will absorb — and forging it so it holds up over years of real-world use. That's the standard we've held ourselves to since 1980."

Looking Toward Electric Vehicles and Green Manufacturing

Juan Piau Industrial is now directing new investment toward production technology and R&D aimed at the electric vehicle and green energy sectors, extending its hot-forging expertise beyond traditional automotive and hand tool applications. The move reflects a broader shift among Taiwan's established forging manufacturers, many of whom are positioning themselves for a supply chain increasingly shaped by EV demand.

Readers can learn more about Juan Piau Industrial's history, facilities, and product lines in the company profile published on its official website: [Taiwan Metal Forging Manufacturer](#) — Juan Piau Industrial.

About Juan Piau Industrial Co., Ltd.

Founded in 1980 in Taiping District, Taichung City — Taiwan's largest hand tool manufacturing hub — Juan Piau Industrial is a hot-forging OEM/ODM manufacturer specializing in automotive repair tool sockets, automotive parts, motorcycle chassis components, agricultural machinery parts, and hardware tools. With three production lines and four high-efficiency hot-forging machines, the company serves clients across the automotive, motorcycle, and hand tool industries, and is expanding its capabilities toward electric vehicle and green energy components. Learn more at <https://www.juanpiau.com.tw/en>.

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