

Exploring the Potential Fastening Tools Market in the U.S.

探索美國潛在緊固工具市場

Introduction

In 2025 the U.S. economy was valued at roughly US\$29 trillion in GDP, with goods-producing sectors contributing a significant share of output. Manufacturing alone added nearly US\$2.9 trillion, accounting for about 10 % of total U.S. economic output, and supporting millions of jobs across the industrial base. Construction activity contributed about 4.4 % of GDP, equivalent to nearly US\$1.3 trillion, as residential, commercial, and infrastructure projects drove demand for both basic and advanced fastening tools. These figures underscore how fastening tools not only serve as physical connectors on job sites and assembly lines but also act as a barometer of productive activity in critical sectors like manufacturing and construction. Given this economic context—where capital investment, industrial output, and construction spending are central to growth—understanding the size, dynamics, and future trajectory of the U.S. fastening tools market is essential for investors, manufacturers, distributors, and strategic planners.

Size and Growth of the Fastening Tools Market

Global Baseline

The global fastening power tools sector alone is substantial. Estimates range widely due to different methodologies, but multiple credible sources converge on a multi-billion USD market:

- A 2024 market report estimates the global fastening power tools market at roughly USD 3.9 billion in 2024, with growth expected toward USD 7.8 billion by the early 2030s.
- Broad tooling and assembly fastening categories can be even larger when manual tools and consumable fasteners are included, with assembly fastening tools alone forecasted to exceed USD 9+ billion by 2035.

Crucially, North America is one of the leading regional markets, often capturing around 30–36% of global volume in broader assembly and fastening segments.

U.S. Market Estimates

Pinning an exact number for the U.S. fastening tools market requires interpolation because many market intelligence reports do not separate the U.S. from broader North America. However:

- One estimate places the U.S. fastening power tools market at approximately USD 950 million in 2024.

- Broader assembly fastening tools (which include more than just powered devices) represented North America at roughly USD 1.22 billion in 2024, with the U.S. representing the lion's share of that.

Add to that the vast fasteners themselves (nuts, bolts, screws), where the U.S. is estimated to account for around 30% of global fastener consumption—a market likely well over USD 30 billion when fasteners and tools are combined.

Drivers of Market Growth

Construction and Infrastructure Investment

U.S. construction activity has long been one of the most powerful demand engines for fastening tools, driven by the scale and continuity of building activity across residential, commercial, and infrastructure segments. In 2024, the total U.S. construction spending exceeded USD 2.0 trillion, reflecting sustained demand despite higher interest rates. Residential construction accounted for roughly USD 880–900 billion, while non-residential and infrastructure projects contributed more than USD 1.1 trillion, including highways, bridges, utilities, and public facilities. Each of these segments relies heavily on fastening tools for structural framing, mechanical installations, finishing, maintenance, and retrofitting.

Although construction cycles fluctuate with financing conditions, long-term demand has been reinforced by federal infrastructure spending. The Infrastructure Investment and Jobs Act (IIJA) allocates approximately USD 1.2 trillion, including USD 550 billion in new federal spending over multiple years, targeting transportation, water systems, energy grids, and public works. These projects are tool-

intensive by nature and create sustained, multi-year demand for both manual and powered fastening solutions.

Reflecting this structural demand, the U.S. construction fasteners market alone was valued at nearly USD 4.85 billion in 2024 and is projected to grow to approximately USD 7.16 billion by 2035, indicating a steady expansion tied directly to construction output rather than short-term cycles. Because fastening tools are consumed continuously throughout construction workflows—rather than only at project initiation—stable or growing construction activity translates into repeat and non-discretionary demand for fastening equipment. As a result, the health of the U.S. construction sector remains one of the most reliable predictors of fastening tool consumption across the market.

Manufacturing and Automotive Assembly

Traditional Manufacturing and Legacy Automotive Production

Traditional U.S. manufacturing—covering machinery, industrial equipment, metal products, appliances, and legacy internal combustion engine (ICE) vehicles—continues to represent the largest volume base for fastening tool demand. As of 2024, U.S. manufacturing generated approximately USD 2.9 trillion in value added and employed close to 13 million workers, with transportation equipment, fabricated metals, and machinery among the top subsectors. These industries rely heavily on high-volume fastening operations, typically using pneumatic, electric, and cordless tools optimized for speed, durability, and repeatability rather than advanced data integration.

In automotive assembly, traditional ICE vehicle production still dominates unit volume. The United States produced over 10 million vehicles annually, with conventional vehicle platforms requiring 2,000–3,000 individual fastening points per vehicle, depending on model and complexity.

From a market perspective, this segment anchors the fastening tools industry in volume stability, but offers limited upside in terms of pricing power or margin expansion.

High-Precision Manufacturing and Electric Vehicle (EV) Assembly

In contrast, high-precision manufacturing—particularly EV and advanced mobility production—is reshaping the value structure of fastening tool demand. While EVs still represent a minority of total vehicles produced, they exert a disproportionate impact on tooling requirements. In 2024, the U.S. produced approximately 1.2–1.4 million electric vehicles, accounting for roughly 12–14% of total light vehicle production, a share expected to continue rising.

EV platforms introduce fundamentally different fastening requirements. Battery packs alone can involve hundreds of critical fastening points, each requiring precise torque control, sequencing, and traceability to ensure safety, thermal stability, and structural integrity. Lightweight materials such as aluminum alloys and composites further increase sensitivity to over- or under-torque conditions. As a result, EV assembly lines increasingly depend on automated, torque-controlled, and sensor-enabled fastening systems, often integrated directly into robotic cells.



www.biaoyer.com

YUYAO BIAOER TRADING CO., LTD. YUYAO NO.2 STANDARD FASTENER FACTORY

Tel: 86-574-62003777, 62003860 Fax: 86-574-62003980

Email: ruanlifei@biaoyer.com MT: 86-15306621777

www.fastener-world.com/en/supplier/biaoyer

Wucheyan Yuyao Ningbo Zhejiang China

Established in 1993, YUYAO BIAOER is a manufacturing and trading company specializing in EYEBOLT (GB789, DIN444) and HINGE.

Material: 4.6/ 8.8/ 10.9/ 12.9/ A2-70/ A4-70)

Standards: M6 - M100 (1/4" ~ 2")

The machined spherical part will remain cleaned and bright after a hot/cold forging and a complete cut process.

We've cooperated with big customers such as ... SIEMENS, ABB, GE..., etc.

We would like to take this opportunity to welcome you as our new customers. If you are interested, please contact us.



Attn: Mrs. Lao / Mr. Ruan

From a market standpoint, this segment delivers lower unit volumes but significantly higher value per tool, higher switching costs, and stronger customer lock-in. It represents the primary source of margin expansion and technological differentiation within the U.S. fastening tools market.

DIY and Retail Power Tools

Beyond professional and industrial channels, the U.S. also has a large DIY power tools market, where fastening tools like cordless drills, impact drivers, and staplers represent a significant share of sales.

Although this segment is more volatile and consumer-driven, trends like:

- Home renovation popularity
- Rise of e-commerce tool retail
- Expanded hobbyist woodworking and home repair activities

have broadened the total addressable market.

Future Outlook

Aggregating multiple forecasts and applying regional weights:

- **The U.S. fastening power tools sub-market is expected to grow steadily, likely matching or exceeding the moderate global CAGR (≈5–7%) as construction and automotive sectors recover and innovate.**
- **Smart and connected tools represent the fastest-growing segment, with CAGRs approaching 10% through 2033, significantly above legacy tools.**
- Hardware (fasteners) markets continue to expand at steady mid-single-digit rates (≈3–4% CAGR) tied to broad industrial output.

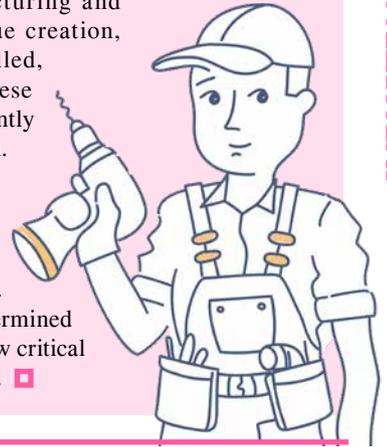
Overall, even conservative projections suggest that the combined U.S. fastening tools and fasteners ecosystem will continue to expand both in value and technological complexity, presenting opportunities for incumbents and new entrants alike.

Conclusion

The U.S. fastening tools market is structurally anchored to the country's core economic engines—manufacturing, construction, and automotive production—which together account for trillions of dollars in annual output. With over US\$2 trillion in construction spending and US\$2.9 trillion in manufacturing value added, demand for fastening tools remains non-discretionary and resilient.

However, the market is increasingly divided. Traditional construction and legacy manufacturing sustain volume and replacement demand but offer limited margin growth. In contrast, high-precision manufacturing and electric vehicle assembly are redefining value creation, driving demand for automated, torque-controlled, and digitally integrated fastening systems. These applications deliver lower volumes but significantly higher value per tool and stronger customer lock-in.

Looking ahead, overall market growth is expected to remain steady, but competitive advantage will shift toward players aligned with complex, high-accuracy fastening environments. In the U.S. market, long-term success will be determined not by how many fasteners are installed, but by how critical precision, reliability, and traceability have become. ■





YENCHANG

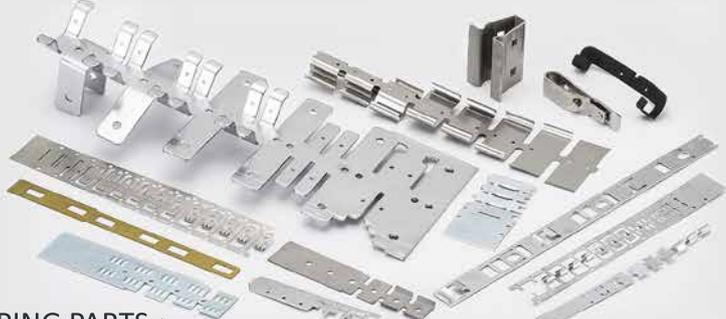
Hardware Hook & Spring Factory




SINCE 1992



▲ CNC MILLING PARTS



STAMPING PARTS ▲



SPRING CLIPS ▼



▼ WIRE FORMING

Tel: 886-6-255 4123 Fax: 886-6-246 7212 E-mail: yenchang201@gmail.com
www.yenchang.com.tw www.fastener-world.com/en/supplier/yenchang
201, Gongming Road, Annan District, Tainan City 70968, Taiwan



