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CHINA'S MACHINE TOOL INDUSTRY, MARKET AND REGULATIONS

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1. Machine Tool Industry in China

1.1 Overview of China's economy, market performance, and the main indicators of the machine tool industry

1.1.1 Main economy indicators (summary of the highlights)

- Mild decrease in overall commodity prices, but prices of many product categories are still going up.

In February 2025, the retail prices of commodities dropped by 0.7%. Among them, food commodity prices dropped by 3.3%, non-food commodity prices dropped by 0.7%; both urban and rural retail prices dropped by 0.7%.

By category, fresh vegetables prices dropped by 12.6%; aquatic products prices dropped by 3.6%; in contrast, prices of clothing and real estates increased by 1.2% and 0.1% respectively.

- The industrial output displayed a steady growth, with shipbuilding & aerospace & railway sectors growing most rapidly.

In January and February 2025, the value-added of enterprises above the designated size rose by 5.9% in real terms, 0.3 percentage points lower than December 2024.

By sector, value-added of the mining industry increased by 4.3%; value-added of the textile industry increased by 7.0%; value-added of the general equipment manufacturing industry increased by 9.5%; value-added of aerospace & shipbuilding & aerospace industry increased most rapidly by 20.8%.

- Manufacturing PMI Index (March 2025)

In March, the Purchasing Manager Index (PMI) for the manufacturing industry was 50.5% (0.3 percentage points higher than the previous month), showing a consistent upward trend since January.

Reasons for the upward trend:

- 1) A rapid expansion in both market demand (New Order Index) and supply (Production Index) of the manufacturing industry, especially in railway, shipbuilding, and aerospace equipment sectors.
- 2) The operational activities of small-and-medium enterprises are gradually recovering, despite still on a slightly declining trend.



**Notes: A PMI index over 50 represents expansion within the manufacturing sector compared with the prior month; a reading under 50 represents contraction; and a reading at 50 indicates that the industry size remains unchanged.*

➤ PMI and component indexes (%) of China's manufacturing industry

| | PMI | Production | New order | Raw material inventory | Employee | Supplier delivery time |
|----------|------|------------|-----------|------------------------|----------|------------------------|
| Apr 2024 | 50.4 | 52.9 | 51.1 | 48.1 | 48.0 | 50.4 |
| May 2024 | 49.5 | 50.8 | 49.6 | 47.8 | 48.1 | 50.1 |
| Jun 2024 | 49.5 | 50.6 | 49.5 | 47.6 | 48.1 | 49.5 |
| Jul 2024 | 49.4 | 50.1 | 49.3 | 49.9 | 48.3 | 49.3 |
| Aug 2024 | 49.1 | 49.8 | 48.9 | 47.6 | 48.1 | 49.6 |
| Sep 2024 | 49.8 | 51.2 | 49.9 | 47.7 | 48.2 | 49.5 |
| Oct 2024 | 50.1 | 52 | 50 | 48.2 | 48.4 | 49.6 |
| Nov 2024 | 50.3 | 52.4 | 50.8 | 48.2 | 48.2 | 50.2 |
| Dec 2024 | 50.2 | 52.1 | 51 | 48.3 | 48.1 | 50.9 |

| | | | | | | |
|----------|------|------|------|------|------|------|
| Jan 2025 | 49.1 | 49.8 | 49.2 | 47.7 | 48.1 | 50.3 |
| Feb 2025 | 50.2 | 52.5 | 51.1 | 47 | 48.6 | 51 |
| Mar 2025 | 50.5 | 52.6 | 51.8 | 47.2 | 48.2 | 50.3 |

- ♦ The manufacturing industry was showing a consistent expansion since January.
- ♦ The production activities of the manufacturing enterprises was significantly vitalizing.
- ♦ New market order of the manufacturing industry displayed a great increase.
- ♦ Inventories of raw materials was largely decreasing.
- ♦ Unemployment situation of the manufacturing industry was still worsening.
- ♦ The delivery time of raw materials shortened to some degree.

1.2. Overview of the North China and Northeast China clusters

1.2.1 Industry clusters overview

North China (华北), as a region comprising five provincial administrative areas—Beijing, Tianjin, Hebei, Shanxi, and Inner Mongolia, relies on heavy industries such as steel, coal, and non-ferrous metals. While North China lags behind East/South China in terms of overall economic/industrial development, the Beijing-Tianjin-Hebei (京津冀) region is prospective to catch up with the blooming high-end manufacturing industry (e.g. automobile and high-end equipment).

| PRVOINCE | SUMMARY |
|----------------|--|
| Beijing | <ul style="list-style-type: none"> ▪ The economic center in North China, with a GDP of 4.98 trillion in 2024. ▪ A key base for China's high-tech industry, hosting many national-level engineering research centers, laboratories, and incubators. |
| Tianjin | <ul style="list-style-type: none"> ▪ Another economic center in North China, with a GDP growth rate of 5.1% in 2024. ▪ Tianjin Economic-Technological Development Area (TEDA), one of China's earliest national-level economic |

| | |
|-----------------------|---|
| Hebei | development zones, focuses on the transformation of automobile, green energy, health and IT sectors. |
| | <ul style="list-style-type: none"> ▪ Hebei Province’s GDP grew by 5.4% in 2024. ▪ Tangshan, the city with the largest GDP in Hebei Province, is famous for steel, high-end equipment manufacturing, and trade & logistics; and Shijiazhuang is developing a new generation of electronic and biomedical products. |
| Shanxi | <ul style="list-style-type: none"> ▪ Main industrial sectors include coal, general equipment manufacturing and new material. ▪ Nowadays, Shanxi is transforming the traditional coal industry into clean energy industry. |
| Inner Mongolia | <ul style="list-style-type: none"> ▪ Main industrial sectors include dairy, rare earth, and coal chemistry. |

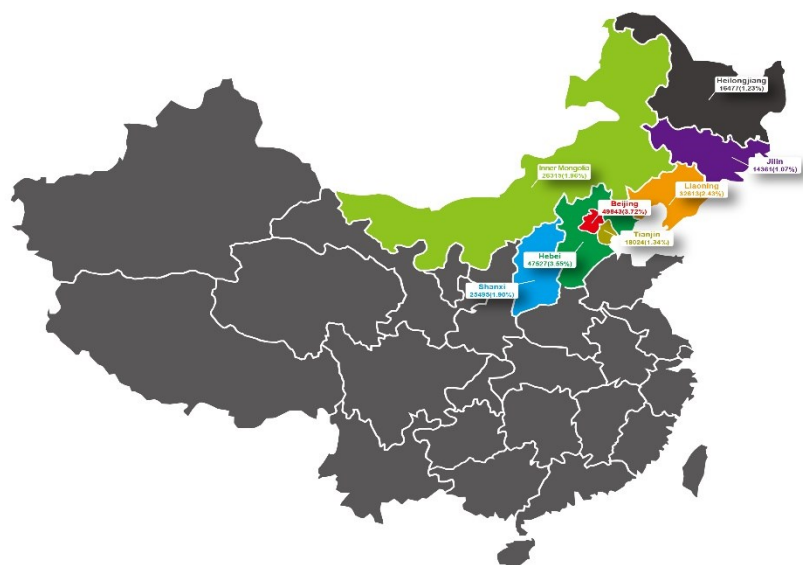
Northeast China (东北), as a region comprising three provincial administrative areas- Liaoning, Jilin and Heilongjiang, is one of the earliest-industrialized regions in China concentrating on traditional industries like general equipment manufacturing, mining and coal & oil & natural gas processing. However, this region is gradually losing the traditional competitiveness as China pivots to new industries like renewable energy, AI and robotics. According to the Institute of Industrial Economics at CASS (Chinese Academy of Social Sciences), from 2012 to 2023, the proportion of industrial added-value in Northeast China (as opposed to the entire country) dropped from 6.91% to 4.73%.

| PROVINCE | SUMMARY |
|---------------------|---|
| Heilongjiang | <ul style="list-style-type: none"> ▪ Focus on the development of digital economy, bio-industry, modern agriculture, equipment manufacturing, and oil & gas processing. |
| Jilin | <ul style="list-style-type: none"> ▪ Automobile is one of Jilin’s pillar industries, and includes many famous brands (most under China FAW Group). |
| Liaoning | <ul style="list-style-type: none"> ▪ Boast a strong industrial base in areas such as general equipment manufacturing, petrochemicals, fine chemical, metallurgy, new materials and marine engineering. |

Collectively, North China and Northeast China accounted for approximately 17% of the national GDP in 2024 (North China: 12.47%; Northeast China: 4.73%):

| Province/city | 2024 GDP (100 million RMB) | % of national GDP |
|----------------|----------------------------|-------------------|
| Beijing city | 49843 | 3,72% |
| Tianjin city | 18024 | 1,34% |
| Hebei | 47527 | 3,55% |
| Shanxi | 25495 | 1,90% |
| Inner Mongolia | 26315 | 1,96% |
| Liaoning | 32613 | 2,43% |
| Jilin | 14361 | 1,07% |
| Heilongjiang | 16477 | 1,23% |

Source: national bureau of statistics



Source: ITA Machine Tool Desk, In3act Analysis

1.2.2 Main market players

| Company | Location | Background |
|---|----------|--|
| Beijing No.1 Machine Tool Co. Ltd.  | Beijing | <ul style="list-style-type: none"> Founded in 1949, Beijing No.1 Machine Tool Co.,Ltd is a state-owned enterprise for high-end CNC machine tool manufacturing. |
| Beijing Jingdiao Group Co. Ltd.  | Beijing | <ul style="list-style-type: none"> Founded in 1994, Beijing Jingdiao Group is a high-tech enterprise specializing in the R&D, engineering design, production and sales of precision CNC machine tools. |
| Tianjin Tianduan Press Co., Ltd.  | Tianjin | <ul style="list-style-type: none"> Tianjin Tianduan Press Co.,Ltd belongs to China General Technology Group, and is under the direct management of the Central Government. Tianduan was founded in Tianjin in 1956, and is the birthplace of the first hydraulic press in China. |
| Tianjin No. 1 Machine Tool Co., Ltd.  | Tianjin | <ul style="list-style-type: none"> Established in 1951, Tianjin No.1 Machine Tool Co.,Ltd focuses on the development of gear-making machines, special-purpose grinding machines, and precise gear manufacturing technologies. |
| Genertec Shenyang Machine Tool Co., Ltd  | Liaoning | <ul style="list-style-type: none"> Founded in 1993 and listed on the Shenzhen Stock Exchange in 1996, Genertec Shenyang Machine Tool Co.,Ltd produced the first lathe, drilling machine, boring machine and CNC machine tool in China. |
| Genertec Dalian Machine Tool Co., Ltd. | Liaoning | <ul style="list-style-type: none"> Formerly known as Dalian Machine Tool Group Co.,Ltd, this company was founded in 1948 and is one of the |



Genertec Qiqihar No.2 Machine Tool (Group) Co., Ltd.



Heilongjiang

first machine tool manufacturers in China.

- ♦ As a leading enterprise in China's heavy machine tool industry, Genertec Qiqihar No.2 Machine Tool (Group) Co.,Ltd was founded in 1950 and is one of the first backbone machinery enterprises during the "First Five-Year-Plan" period.



Source: ITA Machine Tool Desk, In3act Analysis

1.2.3 Main upstream industries

| Upstream industries | Market performance |
|------------------------|--|
| Precision parts | The development of precision parts in North/Northeast China is quite limited, largely behind that of East China. |

| | |
|-------------------------|---|
| Functional parts | The functional parts industry in North/Northeast China is relatively weak and mainly relies on the supply from East China. |
| CNC system | Even though most regions in North/Northeast China are lagging behind in CNC system industry, Beijing, as a center for technological innovation, has several CNC system companies with cutting-edge R&D capabilities, such as Beijing Jingdiao Group Co.,Ltd. and Beijing KND CNC Technology Co., Ltd. |
| Castings | <p>The casting industry (mostly producing large castings) in North/Northeast China mainly concentrates in Tianjin and Hebei.</p> <p>Tianjin—with a strong industry chain, especially in the field of automobile part castings.</p> <p>Hebei—Handa and Cangzhou show robust competitiveness in the field of traditional casting.</p> |

1.2.4 Main downstream industries

| Sector | Geographical features |
|-------------------|--|
| Automotive | <p>Beijing-Tianjin-Hebei cluster—The automotive industry has a large size, driving up the demand for machine tools.</p> <p>Northeast China—The automobile industry is concentrated in Jilin Province, represented by FAW Group. Jilin Province is actively promoting the transformation from tradition automobiles to new energy vehicles.</p> |
| Mold | The traditional mold industry in North/Northeast China is gradually developing in the direction of precision and digitalization, despite still far behind East China. |

| | |
|-------------------------------|--|
| | Beijing— mainly produce high-end precision molds (applied in high-tech fields such as aerospace and electronic information). |
| | Tianjin-- mainly produce molds for automobile manufacturing. |
| 3C | North China—the 3C electronics industry is relatively developed, especially in Beijing and Tianjin, with a number of high-tech electronic companies such as Lenovo and Xiaomi; drive up the demand for high-end machine tools. |
| | Northeast China—the 3C electronics industry is relatively weak and concentrated in cities such as Shenyang and Dalian (Liaoning); drive up the demand for mid-to-low-end machine tools. |
| Aerospace | North China—the aerospace industry is robust. Beijing has many aerospace research institutes and enterprises, driving up the demand for high-precision machine tools. |
| | Northeast China—the aerospace industry is concentrated in Shenyang and Harbin, mainly producing aerospace engines and functional parts. |
| Shipbuilding | North China—The shipbuilding industry mainly concentrates in coastal regions such as Tianjin and Hebei. |
| | Northeast China—a traditional shipbuilding base in China; Dalian (Liaoning) harbor is one of the most important ship ports in China. |
| Construction machinery | North China—the construction machinery industry is mainly concentrated in Hebei and Shanxi. |
| | Northeast China—a traditional heavy industry base in this region for the development of the construction machinery industry; a number of large-scale construction machinery companies in Harbin, Qiqihar and other places (Heilongjiang), driving up the demand for heavy machine tools. |
| Metallurgy | North China—the metallurgy industry is well-developed, especially in Tangshan and Handan (Hebei). |

Northeast China—there are many old metallurgy/steel companies such as Anshan Iron and Benxi Iron & Steel.

1.3. Overview of the upstream industry, enterprise geographical distribution and the supply trends


1.3.1 Upstream industry overview: Numerical control system

Data from China Commercial Industry Research Institute—China’s market size of numerical control system reached 27.38 billion RMB (3.9 billion USD) in 2023, displaying a CAGR of 6.18% over the past five years.

Data from Qianzhan (China-based industrial thinktank)—in 2023, China’s numerical control system industry is dominated by foreign brands, with FANUC (Germany) taking the lead registering a market share of 37%, followed by Mitsubishi (Japan) registering a market share of 17%.

Accelerating domestic substitution trends— the market share of China’s local brands is gradually increasing. (The market share of GSK CNC System reached 12% in 2023).

1.3.2 Enterprise geographical distribution of numerical control system industry in China

| Company name | Location | Introduction |
|---|-----------|---|
| <div>Wuhan Huazhong Numerical Control Co, Ltd.</div> <div></div> | Hubei | <ul style="list-style-type: none">Founded in 1994, Wuhan Huazhong Numerical Control Co.,Ltd is the first listed company in China’s numerical control system industry.In 2020, the company occupied roughly 50% of the market share in China’s numerical control system industry, and over 80% of the core components are self-developed. |
| <div>GSK CNC EQUIPMENT CO.,LTD.</div> | Guangzhou | <ul style="list-style-type: none">Founded in 1991, GSK occupied a market share of 12% in 2023, and is an industry |



**Beijing KND CNC
Technology Co., Ltd.**



KEDE CNC Co., Ltd.



Beijing

Liaoning

leader in mid-range numerical control systems.

- ♦ GSK has a wide range of products: lathe CNC systems, drilling & milling machine CNC systems, machining center CNC systems, grinding machine CNC systems, etc.

- ♦ Established in 1993, KND has sold over one million sets of CNC systems over the past thirty years.

- ♦ Established on January 28, 2008, Kede is an innovative manufacturer of high-end CNC systems, machine tools, and functional components.



Source: ITA Machine Tool Desk, In3act Analysis

1.3.3 Supply trends of the numerical control system industry

- ✓ Targeting mid-to-high-end market— China's numerical control system is developing rapidly in terms of technology innovation, cost advantages, and after-sales service, gaining an increasing foothold in mid-to-high-end market segments.
- ✓ Accelerating domestic substitution—Supported by the national policy agenda and growing technological capabilities of domestic enterprises, the supply of numerical control systems is shifting from import to domestic manufacturing.
- ✓ High Speed, High Precision, High Reliability—Numerical control systems is developing towards higher processing efficiency and improved product quality to cater to downstream manufacturing demands.
- ✓ Hybrid Manufacturing Approach—The combination of CNC and plug-in machining technology (e.g. 3D printing) enhances the manufacturing efficiency of complex parts while minimizing material waste.

2. Digital Marketing Platforms in China

2.1 Introduction: China's digital marketing platforms

WeChat (Company Official Account)—A pivotal tool for businesses to connect with the target audience



| | |
|-----------------|--|
| Overview | As the most important digital marketing platform for business in China, Wechat Company Official Account was launched by Tencent in 2012, enabling enterprises to disseminate informative contents and interact with account followers via text, image and audio. With the blended functions of content publishing and social engagement, Wechat Company Official Account gained foothold both domestically and internationally, distinguishing from western counterparts like Mailchimp and HubSpot, which focus on less direct approaches such as email marketing and CRM solutions. |
|-----------------|--|

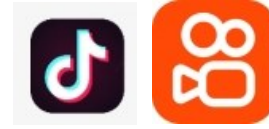
| | |
|---------------------------|--|
| User base | As of 2024, Wechat boasted over 1 billion monthly active users, and more than 5 million enterprises have created a Wechat Company Official Account spanning industries such as manufacturing, food & beverage and technology. |
| Platform functions | <p>Content publishing—Business can share industry news, company dynamics, and product information in various formats, including text, images, and videos, to increase the visibility and transparency.</p> <p>Customer engagement—The communication interface allows business to address customer inquiries and complaints promptly, therefore enhancing customers' level of satisfaction and loyalty.</p> <p>Precise marketing—The backstage user data of the Wechat Company Official Account provides insights in the behavior patterns of different demographic segments, so that business can target the potential customer base and devise marketing strategies accordingly.</p> |

Xiaohongshu: A Social Media and E-commerce Platform



| | |
|---------------------------|--|
| Overview | Xiaohongshu, also known internationally as Rednote, is a Chinese social media and e-commerce platform founded in 2013 by Mao Wenchao and QuFang. The platform allows users to make online purchases and share user-generated contents (UGC) such as product reviews, travel experiences, and lifestyle tips. |
| User base | As of 2024 Xiaohongshu boasted over 300 million monthly active users , with approximately 70% born after 1990 and approximately 70% being female. The platform was initially designed to attract young women interested in fashion and beauty, but now is expanding the content scope into technology, engineering design, etc., to attract a broader audience. |
| Platform functions | User-generated content —Users can share experiences by photos, videos and text posts, creating a sense of authenticity and community on this platform. |

| | |
|--|--|
| | KOL & KOC collaborations —Business can enhance brand visibility and credibility by partnering with Key Opinion Leaders (KOLs) and Key Opinion Consumers (KOCs) for product marketing. |
|--|--|



Douyin (TikTok) and Kuaishou(Kwai):

Leading platforms for short videos and live-streaming contents

| | |
|---------------------------|--|
| Overview | <p>Douyin: Launched by Bytedance in September 2016, Douyin’s platform functions have expanded from short videos into live-streaming and e-commerce within a short frame of time.</p> <p>Kuaishou: Launched by Kuaishou Technology in 2011, Kuaishou has evolved from a GIF-sharing app into a major short video and live-streaming platform.</p> |
| User base | <p>Douyin: As of December 2024, Douyin’s monthly active users exceeded 800 million (daily active users have exceeded 700 million). The user community is dominated by young people (students and junior professionals).</p> <p>Kuaishou: As of December 2024, Kuaishou’s monthly active users reached approximately 714 million (daily active users reaches 408 million). The platform has a diverse user demographics, with a significant portion of users coming from China’s second-and-third-tier cities.</p> |
| Platform functions | <p>Brand exposure— Both platforms have an extensive reach, enabling brands to showcase products to a vast audience and therefore to increase brand exposure/visibility.</p> <p>Direct engagement— Features like live-streaming and interactive chat-boxes facilitate real-time engagement with users, and help foster a stronger customer relationship.</p> <p>Targeted marketing— Advanced algorithms on the backstage allow brands to target potential customers with precision and funnel the marketing efforts accordingly.</p> <p>E-commerce— The E-commerce function enables direct product sales through the platform, streamlining the purchasing process for customers.</p> |



Zhihu and Toutiao:

Platforms for disseminating professional and authoritative contents

| | |
|---------------------------|---|
| Overview | <p>Zhihu: Launched in 2010 by Zhihu Technology as a question-and-answer community, Zhihu has now evolved into a comprehensive knowledge-sharing platform, encompassing professional expertise, industry insights, and latest technological innovation briefings. Zhihu is akin to western platforms like Quora or Reddit but places a stronger emphasis on in-depth discussions within the Chinese-speaking community.</p> <p>Toutiao: Launched by Bytedance in 2012, Toutiao is a news/information-focused platform with algorithm-driven content recommendations. It covers a wide array of topics, including entertainment, society and economics.</p> |
| Users base | <p>Zhihu: As of 2023, Zhihu reported 99 million monthly active users, and 14.2 million subscribers (marking a 9.2% year-on-year increase). The platform predominantly attracts high-educated, tech-oriented users, in the fields such as technology, education, healthcare and finance.</p> <p>Toutiao: As of 2020, Toutiao reported 270 million daily active users (spending on average 76 mins/day on the app).</p> |
| Platform functions | <p>Enhanced brand authority— Both platforms allow business to share professional expertise and industry sights, solidifying brands' authoritative images in the field.</p> <p>Targeted content distribution— Advanced algorithms ensure that professional contents reach the most relevant audience.</p> <p>Direct audience engagement— Features such as comments and discussion forums facilitate direct interactions with users/potential customers, enhancing the customer relationship-building and information transparency.</p> |

| | |
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| | Comprehensive numerical analysis —In-depth data analysis tools allow business to monitor the content performance and refine marketing strategies accordingly. |
|--|--|


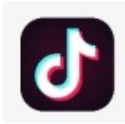



Alibaba International: A premier B2B platform for global trade




| | |
|---------------------------|--|
| Overview | Established by the Alibaba Group in 1999, Alibaba International serves as China's leading B2B e-commerce platform to connect Chinese enterprises with international buyers/sellers and facilitate the cross-border trade. Similar to western platforms like Amazon, Alibaba International offers comprehensive services including online display of products, cross-border transactions, and international supply chain management. |
| User base | As of mid 2021, Alibaba International reported over 30 million registered users , with more than 70% located outside of China. The e-commerce platform spans over 40 industries and facilitates cross-border trade among over 200 countries(regions). |
| Platform functions | <p>Trade matching— Alibaba International's B2B algorithm enables producers to connect directly with potential buyers, streamlining the trade process with a higher efficiency.</p> <p>One-stop trade services—Alibaba International offers users one-stop services for cross-border transactions, from trade assurance, logistics, to payment solutions.</p> |

2.2 Summary – Digital marketing platforms comparison

| Platform | Advantages | Disadvantages |
|--------------------------------------|--|---|
| WeChat (Official Account) | 1. Direct user engagement functions enhance the brand loyalty. | 1. Content supervision, and strict platform regulations for users to comply with. |

| | | |
|--|--|--|
|  | <p>2. Backstage user data can increase the precision and effectiveness of marketing strategies.</p> | <p>2. Requiring a high frequency of content updates to maintain the attention of audience.</p> |
| <p>Xiaohongshu</p>  | <p>1. Young user base, emphasizing creativity and commodity sharing/display. 2. UGC and KOL/KOC collaborations can enhance brand influence. 3. Integrated e-commerce functions support direct product purchases.</p> | <p>1. Predominantly young female audience, which may not fully align with the target audience of traditional mechanical industries. 2. Content dissemination outcome heavily depends on latest user trends, making sustained & stable content exposure challenging.</p> |
| <p>Douyin</p>  <p>Kuaishou</p>  | <p>1. Engaging short videos and live-streaming effectively showcase product features and operating performance. 2. Real-time user engagement functions (chat-boxes) enhance the brand exposure, particularly to the young audience.</p> | <p>1. Intense competition on the platform can make it difficult for brands to stand out. 2. Predominantly young audience, which may not fully align with the target audience of traditional mechanical industries.</p> |
| <p>Zhihu</p>  <p>Toutiao</p>  | <p>1. Backstage user data can enhance the precision and effectiveness of marketing strategies. 2.(Zhihu) In-depth industry analysis and knowledge-based technical articles boost the brand authority. 3.(Toutiao) Embedded content recommendation functions can greatly enhance the brand influence.</p> | <p>1.(Zhihu) Highly-professional contents create a barrier for ordinary users to comprehend. 2.(Toutiao) Algorithms behind the content recommendation functions are not perfect (contents do not always reach the target audience).</p> |
| | <p>1. Precise B2B matchmaking functions</p> | <p>1. Fierce competition on the platform makes it</p> |

| | | |
|---|--|---|
| <p>Alibaba International</p>  | <p>enable business to quickly connect with potential buyers.</p> <p>2. Strong SEO tools help enhance product visibility to the target audience.</p> <p>3. Global reach on this platform paves the way for cross-border transactions.</p> | <p>difficult for small/start-up businesses to stand out.</p> <p>2. Heavy reliance on SEO tools may result in suboptimal cross-border transactions for some enterprises.</p> |
|---|--|---|

3. Machine Tool Industry Exhibitions: Recent Highlights

Suzhou International Machine Tool Exhibition 2025 (CMES 2025) was held from 19th to 22nd March in Suzhou, marking the 7th anniversary since its foundation. As one of the most influential exhibition events for high-end machine tools in eastern China, CMES 2025 attracted over 700 vendors from countries like China, Germany, Switzerland, Italy, Japan and the USA, accommodating more than 50,000 visitors in the 4-day duration. The exhibition venue was divided into five major zones-- metal-cutting machine tools, metal-forming machine tools, machine tool accessories, automation & robotics, and grinding tools, with a particular focus on industries such as advanced materials, new energy, medical equipment, and electronic information.

One example of the high-end machine tools displayed in the event is the GBT turret CNC lathe, featured by high precision, high resilience, and high efficiency:

- ✓ High precision-- canceling the main drive chain of the machine tool to reduce the number of spindle drive links, therefore greatly improving

the accuracy of machining parts.

- ✓ High resilience-- adopting the high-strength HT300 material in the CNC lathe manufacturing process to ensure the stability and shock absorption in operation; conducting a finite-element analysis on the lathe bed to ensure a reasonable load bearing.
- ✓ High efficiency-- applying a multi-station drum turret with a high tool change speed, which can meet the machining requirements of complicated disk & shaft parts, and greatly enhance the production efficiency.



Another machine tool product that made debut is the CNC surface grinding machine.

The CNC surface grinding machine applies high-grade cast iron in the main base, slide base, working table and grinding heads, together with a reasonable wall-thickness and structural management, to achieve rigidity multiplication and therefore satisfy sophisticated engineering requirements. All castings are treated with internal stress relief to ensure the lasting deformation attributes and have outstanding bending & torsion resistance to ensure the stability in operation.



4. Trade Exchange Data in the Machine Tool Industry Between Italy and China (January - December 2024)

Italy's machine tool exports and imports worldwide (in millions of euros, Jan-Dec 2024)

| | Export | | | Import | | |
|------------------------|--------|----------------------|------------------|--------|----------------------|------------------|
| | Value | YOY change 2023-2024 | Percentage Share | Value | YOY change 2023-2024 | Percentage Share |
| Asia | 736.7 | +4.6% | 18.7% | 291.3 | - 41.5% | 27.0% |
| Oriental Asia | 314.8 | -13.8% | 8.0% | 282.4 | - 41% | 26.1% |
| China | 240 | -16.3% | 6.1% | 71 | -14.2% | 6.6% |
| Worldwide Total | 3938.4 | +1.0% | | 1080.3 | -38.4% | |

Italy's machine tool exports and imports with China by category (in millions of euros, Jan-Dec 2024)

Marked blue are the respective indicators for worldwide total

| | | Value | YOY change | Share of worldwide total |
|--|--------|----------------|-----------------|--------------------------|
| Metal-cutting machine tools | Export | 177.3 (3968.4) | -14.7% (+1.0%) | 10.6% |
| | Import | 27.6 (65.2) | -18.7% (-42.0%) | 3.9% |
| Metal-forming machine tools | Export | 45.2 (350.4) | -7.9% (-15.2%) | 2.5% |
| | Import | 15.3 (182.1) | -11.4% (-37.1%) | 7.7% |
| Non-conventional technology machine tools | Export | 17.3 (400.2) | - 41.0% (+7.5%) | 3.9% |
| | Import | 27.9 (152.8) | -11.1% (-42.3%) | 16.6% |

Key takeaways:

- In the entire year of 2024, Italy's machine tool import (from both worldwide and Asia) reduced by almost a half. In terms of machine tool export, Italy was pivoting the focus from Oriental Asia (China, Japan, South Korea) into "Global South" countries.
- In the entire year of 2024, Italy's machine tool trade with China was significantly falling for all product categories, with Italy's export of non-conventional technology machine tools dropping the most, and

import/export of metal-forming machine tools displaying a relatively moderate decline.

5. Tenders and Bids (April 2025)

Tender Announcement for Dual Spindle CNC Cutting Lathe Project

Required by Huangshi Dongbei Refrigeration Co., Ltd.

Action deadline: Apr 7, 2025

Tender Announcement for Lathe Project

Required by Pangang Group Material Trading Co., Ltd.

Action deadline: Apr 11, 2025

Tender Announcement for Machining Consumables Project

Required by Shenyang Northeast Pharmaceutical Equipment Manufacturing and Installation Co., Ltd.

Action deadline: Apr 11, 2025

Procurement Project for 61140 * 12 meters Machine Tool Equipment

Required by Fujian Hongsheng High tech Environmental Protection Technology Co., Ltd.

Action deadline: Apr 15, 2025

Tender Announcement for Horizontal CNC Lathe Project

Required by Hefei Wanxiang Qianchao Automotive Parts Co., Ltd.

Action deadline: Apr 16, 2025

Tender Announcement for the Processing and Construction Project of Yak Bone Crafts

Required by People's Government of Zhiqingsongduo Town, Jiuzhi County

Action deadline: Apr 18, 2025

Tender Announcement for Horizontal CNC Lathe Project

Required by Jingmen Hongtu Special Aircraft Manufacturing Co., Ltd.

Action deadline: Apr 25, 2025

Tender Announcement for CNC Equipment Purchasing Project

Required by Shanghai Zhenhua Heavy Industry (Group) Co., Ltd.

Action deadline: Apr 27, 2025

Tender Announcement for Finished Lathe Project

Required by Zhejiang Wanxiang Precision Industry Co., Ltd

Action deadline: Apr 29, 2025
