

India's Industrial Automation & Smart Manufacturing Landscape

INTRODUCTION

India, which has long been acknowledged as a global manufacturing center, is currently experiencing a significant transformation due to the emergence of smart manufacturing driven by Industry 4.0 technologies, including Artificial Intelligence (AI), the Internet of Things (IoT), robotics, and advanced data analytics. These advancements are transforming production processes by facilitating the seamless integration of machines, systems, and data throughout the manufacturing cycle, leading to increased automation, real-time monitoring, predictive maintenance, and reduced time-to-market. While large corporations are at the forefront of this transition, small and medium enterprises (SMEs) are also adopting smart technologies to maintain their competitive edge, bolstered by government initiatives such as Make in India and Skill India. The effects are significant—enhancing productivity, reducing costs, improving quality, and strengthening supply chain resilience—while also attracting foreign investment and fostering economic growth. Nevertheless, challenges such as workforce upskilling, digital readiness, and cybersecurity need to be addressed to ensure sustainable implementation.

Market Context & Policy Drivers in India

1. Digital Infrastructure & Foundational Programs

- The goal of Digital India, which includes elements such as the National Broadband Mission, is to improve digital infrastructure and connectivity, which is essential for Industry 4.0.
- With sales growing at a CAGR of over 25% (FY17–23), absorption improving from 82% to 93%, and capital expenditures for capacity growth estimated at ₹50,000 crore over the next three years, the data center business is thriving.
(<https://www.moneycontrol.com/news/business/real-estate/indias-data-centre-capacity-to-double-in-three-years-careedge-ratings-12531061.html>)

2. Industry 4.0 Market Size & Adoption Trends

- The India Industry 4.0 market was valued at US \$5.49 billion in 2024, expected to reach US \$6.55 billion by 2025 and grow to US \$26.69 billion by 2033, at a CAGR of 19.2% (<https://straitresearch.com/report/industry-4.0-market/india>).
- In FY21, Indian manufacturing spent US \$5.5–6.5 billion on Industry 4.0, with roughly 50% focused on foundational technologies such as cloud and IoT.
(<https://nasscom.in/product/61>)

- Projections suggest that digital tech will account for ~40% of total manufacturing expenditure by 2025, up from ~20% in 2021. ([Digital Manufacturing : Impact on MSMEs | TCS iON](#))

3. Key Government Initiatives & Incentive Schemes

- **SAMARTH Udyog Bharat 4.0**

- It is a flagship initiative of India's Ministry of Heavy Industries to promote smart and advanced manufacturing practices under the Industry 4.0 framework.
- It supports the creation of Smart Manufacturing Demonstration Centres (SMDCs) across the country, enabling industries—especially MSMEs—to access cutting-edge technologies, training, and best practices for digital transformation.

- **Digital MSME Scheme and MSME Competitive Lean Scheme**

- It is a Government of India initiative aimed at digitally empowering Micro, Small, and Medium Enterprises (MSMEs) by enhancing their access to affordable digital tools, e-commerce platforms, and online services.
- It focuses on providing MSMEs with digital infrastructure, software solutions, and digital marketing support to improve their operational efficiency, competitiveness, and market reach.

- **Production-Linked Incentive (PLI) schemes**

The PLI scheme, launched in 2020, incentivizes companies across 14 sectors—including electronics, textiles, pharmaceuticals, and automobiles—to scale up domestic manufacturing and boost India's global competitiveness.

Government Incentives: Catalysts for Smart Manufacturing

- **Production-Linked Incentive (PLI) Scheme**

Introduced to encourage domestic manufacturing across several sectors—such as electronics, pharma, automobiles, and renewable energy—with a total outlay of ₹1.97 lakh crore (~US \$28 billion). (<https://ddnews.gov.in/en/pli-scheme-fuels-indias-industrial-transformation-boosts-manufacturing-and-jobs/>)

- **Semiconductor Push**

Under the India Semiconductor Mission, the Central Government committed approximately INR 629 billion (~US \$7.17 billion) as incentives (~97% of the ₹650 billion funding allocated). By August 2025, 10 projects were approved with cumulative investments of ~INR 1.60 trillion (~US \$18.2 billion), marking a strategic advance in chip fabrication and packaging infrastructure. (<https://www.india->

[briefing.com/news/setting-up-a-semiconductor-fabrication-plant-in-india-what-foreign-investors-should-know-22009.html/](https://www.india-briefing.com/news/setting-up-a-semiconductor-fabrication-plant-in-india-what-foreign-investors-should-know-22009.html/))

- **Automation Projects**

As of 2024, the government facilitated over ₹3.2 lakh crore in approved industrial projects embedding automation technologies—like robotics and control systems. The industrial automation market saw a sharp 38% year-on-year investment growth in 2025. (<https://www.india-briefing.com/news/setting-up-a-semiconductor-fabrication-plant-in-india-what-foreign-investors-should-know-22009.html>)

- **Smart Manufacturing Hubs (SAMARTH Udyog Bharat 4.0)**

These Industry 4.0 demonstration centers (Common Engineering Facility Centers) are set up in key institutions—e.g., Savitribai Phule Pune University (Pune), IIT Delhi, IISc Bengaluru, and CMTI Bengaluru—to nurture awareness and adoption of automation-led smart manufacturing practices.

- **Manufacturing Growth Targets**

India aims to increase manufacturing's contribution to its GDP from approximately 17% in FY 2023-24 to 25% by 2025, a target supported by government policies like the Production Linked Incentive (PLI) Scheme, automation, and infrastructure development to establish India as a manufacturing hub. ([6.-INDUSTRY-REPORT.pdf](#))

FDI Flows: Fueling Automation and Industry Upskilling

- **Manufacturing FDI Surge**

Over the past decade, FDI into India's manufacturing sector surged by 69%, reaching ~US \$165.1 billion. In just the past five years, total FDI inflows amounted to ~US \$383.5 billion. ([Manufacturing Industries in India & its Growth | IBEF](#))

- **Manufacturing Share and Growth**

The manufacturing sector, which comprised 17% of GDP and employed 27.3 million people in 2023, is projected to reach ₹87.57 lakh crore (~US \$1 trillion) by FY 2026. ([Manufacturing Industries in India & its Growth | IBEF](#))

- **Automation Market Potential**

In 2024, the industrial automation market in India was valued at USD 7.57 billion. According to IMARC Group's forecast, the market would increase at a compound annual growth rate (CAGR) of 8.60% from 2025 to 2033, reaching USD 15.96 billion. ([India Industrial Automation Market Size, Share, Report 2033](#))

Key Factory-Level Digitalization Trends in Q3 2025

1. Surging Demand for Smart Factories with Integrated Automation

Smart factories are increasingly becoming mainstream, with automation technologies like real-time monitoring, AI, IoT, robotics, cobots, and digital twins transforming production environments. Industry leaders in India are investing heavily to build more efficient, agile, and connected manufacturing setups. For example, manufacturers are demanding real-time dashboards to monitor machine output, operational efficiency, downtime, and quality across locations. Ennoconn (a Foxconn subsidiary) began operations in India in March 2025 with a focus on industrial automation and digital transformation—reinforcing the smart factory trend.

<https://www.imarcgroup.com/india-industrial-automation-market>

2. Growth of Predictive Maintenance in India

Market size & growth forecasts

- The Indian predictive maintenance market was valued at USD 463.5 million in 2024.

<https://www.imarcgroup.com/india-predictive-maintenance-market>

- It is expected to grow to about USD 2,837.2 million by 2033, with a CAGR of ~20.4% (2025-2033) under that forecast.

<https://www.imarcgroup.com/india-predictive-maintenance-market>

Adoption and efficiency gains

- Bühler India reports that predictive maintenance via smart analytics, AI and anomaly detection (e.g. vibration or temperature patterns) has helped reduce unplanned downtime by up to ~30% in its facilities.

[Predictive maintenance has helped our customers cut downtime by 30%: Bühler India's Subramanya](#)

- According to *Manufacturing Today India* (citing McKinsey), companies implementing fully digitized predictive maintenance stand to improve equipment availability by 5-15% and reduce maintenance costs by 18-25%.

[Predictive maintenance 4.0 driving efficiency and sustainability in industry - Manufacturing Today India](#)

3. Rising Use of Cobots & Robotics in Mid-Sized Enterprises

Overall rise of robotic deployment

- India installed 8,510 industrial robots in 2023, a 59% YoY increase, placing it among the top-10 global robot-installing countries.

(<https://ibef.org/news/india-s-rise-of-the-robots-country-among-top-10-markets-in-installations>)

- The overall industrial robotics market in India was valued at about USD 4.92 billion in 2022, and is expected to grow to about USD 11.29 billion by 2029 at a CAGR of ~12.6%. (<https://www.blueweaveconsulting.com/press-release/india-industrial-robotics-market-size-booming-to-touch-usd-11-3-billion-by-2029>)

Cobots (Collaborative Robots) market growth & forecasts

- The Indian collaborative robot market was USD 115.3 million in 2024, and is projected to reach USD 2,306.3 million by 2033, growing at a CAGR of ~36.6%. ([India Collaborative Robot Market Size & Growth - 2033](#))
- According to another report, the overall industrial robotics market in India was valued at about USD 4.92 billion in 2022, and is expected to grow to about USD 11.29 billion by 2029 at a CAGR of ~12.6%. ([Collaborative Robot Market Size | Industry Report, 2030](#))

Industrial Edge Computing & Device Interoperability

1. Edge AI adoption in industrial IoT

- *Market context*

India's broader AI opportunity is large — NITI Aayog estimates faster AI adoption could add \$500–600 billion to India's GDP by 2035, with manufacturing among the key beneficiaries. (<https://economictimes.indiatimes.com/news/economy/indicators/faster-ai-adoption-could-add-up-to-600-billion-to-indias-gdp-by-2035-niti-aayog/articleshow/123897829.cms>)
- *AI market growth in India*

Independent industry analysis (Nasscom-BCG) projects India's AI market to grow strongly, with the Indian AI market targeted at ~\$17 billion by 2027 — a strong demand signal for edge AI deployments in industry. (<https://www.reuters.com/technology/indias-ai-market-seen-touching-17-bln-by-2027-notes-nasscom-bcg-report-2024-02-20/>)
- *Global edge/industrial edge growth*

The global Industrial Edge Market, worth USD 18.15 billion in 2024, is expected to rise to USD 21.19 billion in 2025 and reach about USD 44.73 billion by 2030, growing at a 16.1% annual rate. This rapid expansion is fueled by the push for automation and Industry 4.0 technologies, the deployment of 5G networks, and the need for real-time decision-making in process industries.

(<https://www.marketsandmarkets.com/Market-Reports/industrial-edge-market-195348761.html>)

Indian manufacturers will increasingly prefer AI models that run at the edge (on device, gateway or on-prem servers) to meet latency, bandwidth and reliability requirements.

2. Opportunities for plug-and-play hardware/software integration

- *Why demand is rising*

Indian SMEs and mid-tier manufacturers want faster return of investment (ROI) and lower integration cost — modular Industrial Internet of Things (IIoT) stacks (containerized edge apps, standardized APIs, device-profiles) lower barrier to adoption. Global IIoT platforms (ThingWorx, Amazon Web Services (AWS) IoT Greengrass, etc.) provide ecosystems that support such modularity.

<https://www.ptc.com/en/products/thingworx>

- *Business Model Opportunity*

Offering “edge as a service” — hardware combined with pre-installed applications and ongoing updates — is especially appealing to Indian mid-sized manufacturers that lack large in-house IT teams.

3. Taiwanese strengths in embedded computing and networking solutions

- *Taiwan hardware strengths*

Taiwan has deep capability in rugged industrial PCs, embedded boards, SoMs and networking equipment — strong for factory-grade edge platforms that require long lifecycle, thermal tolerance and industrial interfaces. (Analysis and commentary highlight growing Taiwan-India semiconductor/industrial collaboration).

<https://globaltaiwan.org/2024/11/beyond-the-strait-taiwan-india-semiconductor/>

- *Recent momentum*

Taiwanese companies and contract manufacturers (and partners in the Semicon/investment wave) are increasing activity in India as part of supply-chain diversification and ‘China+1’ strategies; India’s Semicon Investment incentives (Semicon

India Program) and major projects (Tata, Micron, Foxconn, Adani, etc.) are raising the local ecosystem's appeal. <https://educaretaiwan.com/major-semiconductor-investments-and-projects-in-india-2024-2025/>

- *Taiwan's Edge in Industrial Solutions*

Taiwanese vendors add value by providing robust industrial gateways, optimized SoMs for edge AI (combining cameras with CPUs/accelerators), industrial switches, and long-lifecycle, ruggedized solutions suited for demanding deployments.

Systems Integrators & Channel Ecosystem in India

Key Players

<i>Company</i>	<i>Core Expertise / Focus Areas</i>	<i>Partnerships & Alliances</i>
Datacipher Solutions	Multi-vendor system integration, enterprise networking, cybersecurity, hybrid cloud, Zero Trust	Juniper Networks, Palo Alto Networks
Tata Consultancy Services (TCS)	IT modernization, legacy + cloud integration, SDN/NFV, security frameworks	Cisco, Juniper, Palo Alto, Checkpoint
Wipro Limited	Digital Integration-as-a-Service (DIaaS), MES/ERP/SCADA integration, hybrid cloud, telecom OSS/BSS	Multi-vendor global ecosystem
Infosys Limited	Modular architectures, APIs, microservices, real-time data integration, multi-cloud management	Industry-specific digital platforms
HCLTech	Automation-first integration, RPA, API frameworks, hybrid cloud orchestration	Broad global client ecosystem
Capgemini	API-led modernization, event-driven architectures, Core Integration Framework	Cloud-native platforms, enterprise IT
Cognizant	Modular, reusable APIs, B2B integration, hybrid environments, regulated industries (life sciences)	Cloud-managed integration

<i>Company</i>	<i>Core Expertise / Focus Areas</i>	<i>Partnerships & Alliances</i>
Aspire Systems	Cloud-native accelerators, AURAS integration framework, managed integration services	Focus on speed and digital transformation
NTT DATA	Hybrid application & data integration, middleware platforms, CI/CD pipelines	Workflow automation, RPA
Microland	Network automation, hybrid cloud, predictive analytics, NetOps orchestration	Focus on operational resilience
Panache Digilife	Specialized in IT hardware integration, cloud-enabled services, automation solutions	Partnerships with global Original Equipment Manufacturers (OEMs)
Allied Digital	IT services, cloud migration, cybersecurity, managed infrastructure, digital transformation	Strong alliances with enterprise OEMs
KPIT Technologies	Automotive system integration, mobility solutions, ER&D (Engineering R&D), digital platforms	Automotive OEMs, Tier-1 suppliers
Tata Elxsi	Product design + system integration in automotive, media, healthcare; embedded AI/IoT systems	

Sources:

<https://datacipher.com/top-10-system-integrator-companies-in-india/>

Company websites: TCS, Wipro, Infosys, HCLTech, Capgemini, Cognizant, Aspire Systems, NTT DATA, Microland

Partnering Model for Taiwan Vendors in India

1. **Original Equipment Manufacturer Alliances (OEM partnerships)**
 - Taiwan companies tie up with Indian manufacturers or service providers.
 - They may set up **joint ventures** or **co-production plants**.
2. **Original Design Manufacturer (ODM) / Technology Licensing**
 - Taiwan vendor provides designs/technology, Indian partner produces or assembles locally.
3. **Reseller / Distributor Networks**
 - Taiwan vendors appoint **Indian resellers or VARs (Value-Added Resellers)**.
 - These partners market, sell, install, and support the products for local customers.
4. **Channel Ecosystem (System Integrators + VARs)**
 - Indian **System Integrators (SIs)** integrate Taiwan-made products (servers, components, automation tools) with other local systems.
 - **VARs** customize, bundle, and sell to SMEs, factories, hospitals, retail chains.
 - This ecosystem ensures products are not only imported, but also **installed, localized, and supported** in India.
5. **Cluster / Supplier Partnerships**
 - Taiwan OEMs anchor in Indian industrial clusters (Tamil Nadu, Karnataka, etc.).
 - Local suppliers and SIs become part of their value chain, building a regional supply ecosystem.

Key Collaborations Between Taiwan Vendors and Indian Partners

Example	Model used	Key details
Dixon & Inventec JV	Joint Venture / ODM partnership	Dixon Technologies (Indian) + Inventec (Taiwan ODM) formed a JV: 60% Dixon, 40% Inventec. They will manufacture notebooks, servers, etc. under Indian manufacturing, seeking govt PLI benefits.

Example	Model used	Key details
Compal + Kalyani Powertrain	Technology / licensing + local manufacture	Compal (Taiwan) enters an MoU to provide tech, oversee local manufacturing, assembly & testing with Kalyani Powertrain (India) for x86 servers.
Optimus + ASRock	Local production using OEM/ODM model	Optimus Electronics (India) partnered with ASRock (Taiwan) to produce enterprise & gaming motherboards in India (production started April 2025).
Tamil Nadu cluster effort	Supplier ecosystem / cluster + anchor OEMs	The Tamil Nadu government is building clusters to attract Taiwanese OEMs, encouraging component suppliers to locate nearby. Example: component park, footwear facility, etc. The Times of India
Machine tools OEM cooperation	Co-production / OEM alliance	Taiwanese machine tool manufacturers like Tongtai teamed up with Indian companies (Lokesh Machines etc.) to co-produce drilling & tapping centers; Indian partner handles local assembly, electric work, guarding etc. Modern Manufacturing India+1

Sources:

<https://www.outlookbusiness.com/corporate/dixon-partners-with-taiwanese-firm-inventec-for-it-hardware-manufacturing-eyes-pli-benefit-via-jv>

<https://www.techcircle.in/2025/03/06/bharat-forge-arm-partners-with-taiwan-based-firm-to-manufacture-x86-servers-in-india>

<https://timesofindia.indiatimes.com/business/india-business/tn-builds-a-bridge-to-taiwan/articleshow/121397157.cms>

<https://www.mmindia.co.in/article/91/flipbook/julyaug2k2>

Significance of India–Taiwan Collaboration

- **Taiwan vendors gain faster entry into India’s market**

Taiwan companies that make electronics, automation tools, or IT hardware can avoid the delays and risks of entering a new country alone. By partnering with Indian OEMs, system integrators, and resellers, they quickly connect with local customers, comply with regulations, and set up supply chains. This shortens their “time to market” and helps them scale faster.

- **Indian SIs/VARs gain access to advanced Taiwan technology**
Local system integrators and value-added resellers in India can strengthen their offerings by working with Taiwanese vendors, who are known for strong design, quality, and cost-effective manufacturing. These partners can bundle Taiwan products with their own services, integrate them into automation projects (like smart factories or healthcare IT), and provide end-to-end solutions that would otherwise take longer to build locally.
- **Both sides benefit from India's government policies**
Programs like the **PLI (Production Linked Incentive)** scheme and the **“Make in India” initiative** encourage local manufacturing and technology transfer. For Taiwan vendors, partnering with Indian companies means they can qualify for tax breaks, subsidies, and easier access to government projects. For Indian partners, these policies reduce costs, create more jobs, and strengthen their role in the domestic and export supply chain.

Case Studies / Competitive Benchmarking

Global players

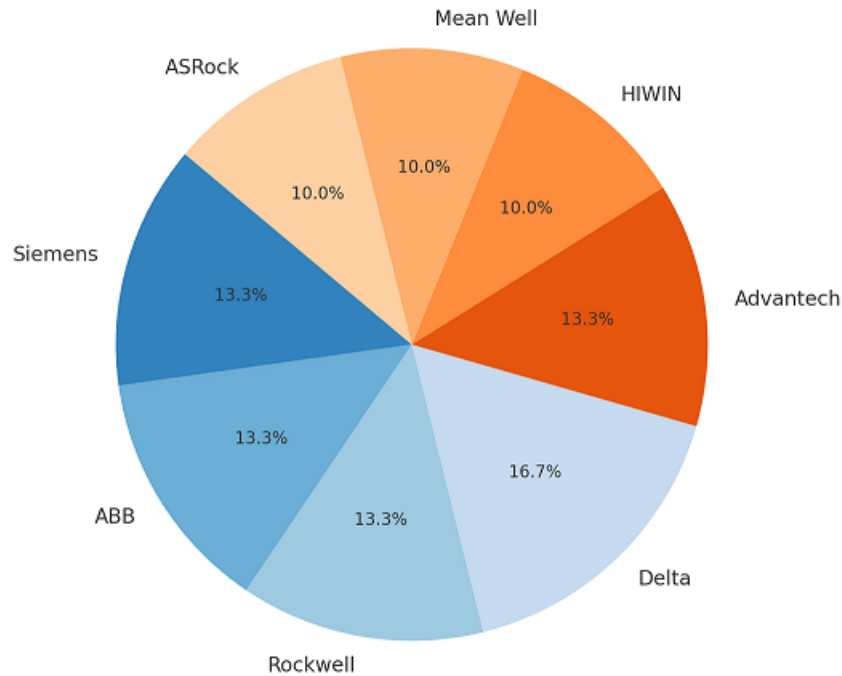
- Global automation players such as Siemens, ABB, and Rockwell offer comprehensive end-to-end automation portfolios, including PLCs, MES, drives, and DCS systems.
- These multinational companies bring deep domain expertise in heavy industries, supported by decades of experience in implementing large-scale projects worldwide.
- They maintain large services and system integration networks in India, which enable them to execute complex projects efficiently while offering ongoing local support.
- Their strong local partner programs and established global project experience make them preferred vendors for Indian enterprises seeking reliable automation solutions.
- In India, these firms typically serve as anchor vendors for large brownfield and greenfield projects, combining their role as OEMs, system integrators, and software providers.

Taiwanese firms

- In comparison, Taiwanese automation firms such as Delta, Advantech, HIWIN, Mean Well, and ASRock focus on niche hardware excellence, particularly in areas like industrial PCs, power electronics, drives, and motion subsystems.
- These companies are known for competitive pricing, rapid product cycles, and strong OEM/ODM capabilities, which allow them to adapt quickly to customer needs.
- Unlike global majors, Taiwanese firms often specialize in components and subsystems rather than offering full MES/DCS stacks.

- In India, they typically act as component and subsystem suppliers, OEM/ODM partners, and promoters of local assembly and product localisation, supported by initiatives like Taiwan Excellence trade promotion programs.

Comparative Strengths in India's Automation Market
(Global Majors vs Taiwanese Firms by Company)



Sources:

[Smart Manufacturing Industrial Automation | Rockwell Automation | IN](#)
[Welcome to Delta Electronics India](#)

[Taiwan Excellence - Official](#)

[Advantech Co-Creating the Future of the IoT World](#)

Taiwan participation at Automation Expo India

- A large Taiwan pavilion including that of ICC of TCA was showcased at Automation Expo India 2025, featuring 22 Taiwanese brands and showcasing over 44 smart-manufacturing solutions. This pavilion highlighted Taiwan's emphasis on smart



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manufacturing, AI robotics, industrial electronics, smart control and sustainability.

[\(Taiwan Excellence - Official\)](#)

- Automation Expo India 2025 (11–14 August 2025, Bombay Exhibition Centre, Mumbai) hosted many Taiwanese exhibitors under the TCA & Taiwan Excellence and individual company pavilions, providing a concentrated platform for Taiwan–India automation engagement.
- ADLINK Technology explicitly promoted edge AI and motion-control solutions at Automation Expo and related industry events, underlining its role in industrial edge computing and AI-enabled automation. (company event posts / exhibitor announcements).
- Vitalcore Technology Ltd. exhibited at Automation Expo 2025 and describes itself as a specialist in BLDC/servo drives and motor-control PCBs — a capability core to robotics and motion-control automation.
- Accordance Systems Inc. provides integrated system solutions and IPC/RAID storage products used in AI inspection, edge computing and process automation; company materials highlight deployments for remote equipment management and production-line automation.
- ATEN International participated as an exhibitor at Automation Expo 2025 and promoted its IT/AV and KVM/industrial connectivity product lines, which are commonly used in control rooms and operator stations in automated factories.
- GoldKey Technology Corporation exhibited in Mumbai and positions itself on industrial memory, SSDs, and embedded storage — components that support reliable edge computing and industrial IoT systems.

[\(Goldkey Technology Corporation | Automation Expo2025\)](#)

Research and Market Gap

- At present, there is no detailed Q3 trend study that captures India’s factory-level digitalization landscape, including opportunity areas, the role of system integrators, and the key challenges faced by manufacturers.
- This lack of structured insights highlights an untapped opportunity for Taiwanese trade associations, policy think tanks, and market research agencies to develop India-specific Industry 4.0 benchmarking reports.

- Such research could act as a practical guide for Taiwanese technology vendors seeking to expand in India, while also providing valuable input for Indian policymakers and industry leaders to shape their smart manufacturing strategies.

Opportunities for Taiwan's Industrial & AI Vendors

Taiwan controls over 90% of global AI server manufacturing capacity, making it indispensable for AI infrastructure development. Major Taiwanese companies like Foxconn, Quanta, and Wistron are at the forefront of this sector, assembling AI servers for tech giants such as Nvidia, Microsoft, and OpenAI.

1. Thriving AI-Powered Manufacturing Ecosystem

India has emerged as the largest buyer at the Taipei International Machine Tool Show (TIMTOS) 2025, reflecting a strong demand for AI-driven smart manufacturing solutions. This positions Taiwan as a key supplier of advanced industrial hardware and AI technologies to meet India's growing needs.

[\(India, the biggest buyer country at TIMTOS 2025; driving AI-powered smart manufacturing, ETManufacturing\)](#)

2. Strategic Semiconductor Collaborations

The collaboration between Tata Electronics and Taiwan's Powerchip Semiconductor Manufacturing Corporation (PSMC) to establish a semiconductor fabrication plant in Gujarat exemplifies the deepening ties between the two nations in the semiconductor sector. (['When chips are down, India chips in': PSMC-Tata fab milestone signals strengthening supply chain ties with Taiwan](#))

3. Government Incentives and Policy Support

India's "India Semiconductor Mission" offers financial support covering up to 50% of project costs for semiconductor fabrication plants, aiming to establish India as a key player in the global semiconductor supply chain. ([India cooperation beyond chips - Taipei Times](#))

Taiwan as a Strategic Industrial Hardware Partner for India

1. Complementary Strengths in Technology and Manufacturing

Taiwan's expertise in hardware, electronics, and manufacturing complements India's strengths in software, services, and skilled talent, fostering a mutually beneficial partnership.

2. Diversification of Supply Chains

In response to global trade tensions, Taiwanese companies are shifting their supply chains from China to India. This move not only mitigates risks but also strengthens India's position in the global supply chain.

3. Shared Vision for Regional Stability

Both India and Taiwan are exploring mechanisms to reduce dependence on China-centric supply chains, underscoring their shared commitment to regional stability and resilience.

Taiwan's AI Leadership and Industrial Growth

Taiwan is at the forefront of AI adoption in manufacturing, with 76.2% of surveyed companies implementing AI solutions. This leadership positions Taiwan as a valuable partner for India in advancing its own AI and industrial capabilities. ([Taiwan Leads Adoption of Manufacturing AI - EE Times India](#))

Regional Collaborations: Key Indian States as Gateways

Tamil Nadu, Karnataka, Maharashtra, Gujarat, and Andhra Pradesh have emerged as significant hubs for advanced manufacturing and industrial collaborations with Taiwan.

Indian State	Taiwanese Companies	Focus / Investment Area
Tamil Nadu	Foxconn, Pegatron, Delta Electronics	Electronics assembly, industrial robotics, smart manufacturing
Karnataka	Advantech, Wistron, Inventec	IT, industrial AI, smart factory solutions, system integration
Maharashtra	Delta Electronics, Foxconn, Pegatron	Automotive components, industrial PCs, automation hardware
Gujarat	Powerchip Semiconductor (PSMC), Inventec	Semiconductor fabrication, assembly lines, JV partnerships
Andhra Pradesh	Advantech, Pegatron, Delta Electronics	Electronics manufacturing clusters, industrial parks, automation

Sources:

[Tamil Nadu Taiwan Bridge: TN builds a bridge to Taiwan | Chennai News - Times of India](#)

[Taiwan firms shift supply chains to India from China, trade body chief says | Reuters](#)



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[India-Taiwan Relations Under Modi 3.0: What Does the Future Hold | Global Taiwan Institute](#)

[Taiwan Excellence - Official](#)

['When chips are down, India chips in': PSMC-Tata fab milestone signals strengthening supply chain ties with Taiwan](#)

Conclusion

India's manufacturing sector is undergoing a significant transformation with the adoption of Industry 4.0 technologies, AI, and smart automation, creating vast opportunities for industrial growth. Taiwanese vendors, with their strengths in industrial hardware, robotics, and AI solutions, are ideally positioned to support this evolution. Strategic partnerships between Taiwan and India enable technology transfer, faster market access, and enhanced competitiveness for both sides. Government incentives, including PLI schemes and semiconductor support, further strengthen the business case for collaboration. By combining Taiwan's hardware expertise with India's skilled workforce and growing market, both nations can build resilient, future-ready industrial ecosystems. This collaboration not only addresses global supply chain diversification but also reinforces long-term strategic relevance for Taiwan as a trusted industrial partner. Overall, the India-Taiwan industrial partnership represents a sustainable pathway for innovation, efficiency, and mutual growth.