FORGING COMPANIES

Industry Outlook

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Deepak Garg, Managing Director

Prakash Yantra Udyog

EMPOWERING INDIAN INDUSTRIES WITH INDIGENOUSLY DESIGNED & MANUFACTURED SOLUTIONS

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Industry Outlook TOP 10
FORGING COMPANIES - 2025

Prakash Yantra Udyog

EMPOWERING INDIAN INDUSTRIES WITH INDIGENOUSLY DESIGNED & MANUFACTURED SOLUTIONS

BY HIMANSHU K

At the brink of a manufacturing revolution, India is witnessing an explosive growth and transformation of its manufacturing sector. Guided by automation, innovation, sustainability, and advanced technologies like robotics, AI, and data analytics, production is turning smarter, faster, and more efficient. Industries today demand high precision, locally produced components, creating opportunities for manufacturers to lead through innovation, build global-scale capabilities, and make Indian engineering a benchmark of strength and precision worldwide. This is where Prakash Yantra Udyog (PYU) shines as India's leading heavy forging company, delivering large, complex, and high-precision components with unmatched quality.

The company specializes in handling challenging jobs that involve heavy tonnage, intricate shapes, and close machining tolerances. Equipped with a state-of-the-art facility, the company excels in producing single piece forgings up to 30 tons. The company boasts a unique integration of heavy forging and precision machining, becoming a one-stop solutions partner for critical industries.

Comprehensive Solutions Under One Roof

Prakash Yantra Udyog stands out for its ability to bridge the gap between large-scale forging capability and precision engineering, empowering clients to source high integrity components domestically. Its expansive facility holds the ability to encompass every process from forging to normalizing, quenching, tempering, and finish machining under one roof. The facility is supported by 90+ large capacity CNC machines which facilitate the creation of fully machined, ready-to-assemble components of world-class quality.

EQUIPPED WITH A 5,000 TON HYDRAULIC FORGING PRESS, THE COMPANY ENSURES INTENSE MATERIAL WORKING OF THE COMPONENT, DELIVERING SUPERIOR GRAIN FLOW AND ELIMINATING POROSITY

Deepak Garg
Managing Director

R.P. Garg
Chairman

Tushar Garg
Director

"Quality begins with understanding where our forgings are used: in critical, high performance applications. We believe perfect process control, backed by skilled manpower, is the foundation of consistent quality", shares Deepak Garg, Managing Director, PYU.



Equipped with a 5,000 ton hydraulic forging press, the company ensures intense material working of the component, delivering superior grain flow and eliminating porosity. On the other hand, its advanced CNC machines provide mirror-smooth finishes and tight dimensional tolerances. Expertly handled by a team of highly trained metallurgists, engineers, and technicians, the company's thorough quality assessment is supported by cutting-edge testing facilities including ultrasonic, magnetic particle, and mechanical testing systems.

In addition to its advanced facility and expert teams, the company's success across solutions comes from its collaborative approach involving clients. Beginning at the design table, client collaborations help deepen the understanding of their specific technical requirements, operating conditions, and performance goals. Design optimization, material selection, and process simulation support ensure precision aligned with precise functional requirements.

"Our collaboration with clients begins at the design table. We work closely with our clients to understand their technical requirements, operating conditions, and performance goals. This partnership approach not only enhances product reliability and efficiency but also helps our clients reduce costs, lead times, and dependence on imports", further shares R.P. Garg, Chairman, PYU.

Cutting-Edge Metallurgical Solutions

Aligning its products with the specific application for which a forged part is to be utilized, Prakash Yantra Udyog has cemented its dependability. Possessing superior strength, its metal precision components are created using advanced processes that preserves the structure of the forged metal, thereby ensuring optimal performance on a wider temperature range. The firm strategically ensures that the final product of the forging process does not have any internal voids and has superior grain flow.

"At PYU, we make sure that every product is thoroughly inspected for quality assurance. We ensure that the forging process reduces the occurrence of shrinkage and porosity which is commonly seen in cast products. Attention is given to ensure the chances of unexpected failure under stress or temperature differences are nullified in machine forging", adds Tushar Garg, Director, PYU.



In addition to maintaining superior quality, the company stands out for its ability to offer various metallurgical options. Its ability to shape metals into desired shapes gives the firm an edge. Moreover, it enables industries to smartly curb use of expensive alloys to achieve high strength components by choosing its strong forged metals. The company possesses capabilities to forge various grades of carbon steel, alloy steel and stainless steel, each of which offers distinct traits which optimize performance.

Despite such strong capabilities and unique offerings, Prakash Yantra Udyog maintains cost effectiveness, by maintaining a precise manufacturing process. Its state-of-the-art facility complete with advanced machinery, experienced and skilled experts, and dedicated quality procedures makes this possible. The result of these strategic measures is a product that requires fewer secondary operations, while being optimally shaped, sized, and with a good surface finish; thus being cost-effective.

An Unparalleled Leadership

Behind such success as PYU has achieved is a brilliant team creating its direction and leading progress. At the head of operations is Chairman RP Garg, an IIT Roorkee alumna with outstanding achievements in mechanical engineering. His pioneering vision in design and manufacturing engineering of equipment has shaped the company's direction from the start. Bringing over 5 decades of experience, the chairman possesses expertise across industries like steel plants, cement plants, shipbuilding, hydropower, sugar industry, mining and material handling.



The second pillar of the company's explosive growth is MD Deepak Garg, a seasoned professional who brings over three decades of experience in the manufacturing industry. His expertise over diverse manufacturing practices, high educational pedigree, and a forward-thinking mind give him a distinct edge. He brings in-depth knowledge of design engineering, manufacturing, and operations of the engineering equipment. With a keen eye for detail, he leads the company to success, ensuring precision is not just promised, but delivered.

Emboldening our company's strength is our Director Tushar Garg. He is the main project leader behind the Radial Forge project and is also responsible for our innovative developments in recent times. He has a keen sense of engineering design & is currently leading the forged railway wheel plant's design & development.

Future Roadmap

Since its establishment in 1990, Prakash Yantra Udyog has carved an unmatched path of reliability and trust. From humble beginnings on the outskirts of Delhi, the company has transformed into a force. Its strengths– a highly dedicated symbiotic work-force, and the continual improvements in machine, material, process and manpower, empowered the firm to grow exponentially. Developing an esteemed clientele, meeting world-class quality standards, and certifying its solutions with ISO 9001-2015, 14001-2015 and 45001-2018 are just some of the milestones the company has achieved.

"We have emphasized nurturing the core values of leadership, continuous improvement and team integrity. As a result, PYU stands stoic, confident and surging ahead under its 3rd generation of entrepreneurship, as its rich legacy", adds Deepak Garg.

Propelled by a vision to build what others only imagine, Prakash Yantra Udyog plans to reinforce its legacy of excellence in the coming years. So far, the firm has expertly designed and manufactured every piece of forging equipment it operates in-house; demonstrating its focus on self-reliance. Its recent commission of India's 1st and the world's 2nd largest hydraulic 'Radial Forge' shows the company's capability.

In its next phase, the company is establishing India's 1st indigenously designed 'Forged Railway Wheel plant' for high speed train wheels. With every such milestone, the company moves boldly towards its mission to ensure that the world's most powerful forges carry the mark of Indian engineering and the spirit of Prakash Yantra Udyog.

