



THE SIMPLEX ENGINEERING STORY FROM STEEL TO STRENGTH

Inside the Kolkata manufacturer that has spent four decades turning an overlooked component – the fastener – into a benchmark for how the world's infrastructure holds together.

Every transmission tower, substation, solar farm, railway line and bridge depends on thousands of small, precisely engineered parts most people never think about. Fasteners rarely make headlines. But when one fails, the consequences are immediate and severe — which is exactly why, for more than 40 years, Simplex Engineering Company has built its entire business around getting them right. From its manufacturing base in Kolkata, Simplex produces hot-dip galvanised transmission line fasteners, high-strength structural bolts, nuts, washers and specialised fastening systems for infrastructure projects across India, Australia, the Middle East, Europe, Latin America and Africa. In a sector where a single defective bolt can compromise an entire structure, the company has built its reputation on a simple premise: consistency, at scale, every time.

ENGINEERING THAT OVERCOMES THE PRESSURE

Infrastructure projects have grown larger and more demanding in recent years. International standards are tightening, sustainability requirements now shape procurement decisions, and project timelines leave little room for delay.

“Our products may be among the smallest components in an infrastructure project, but they carry one of its greatest responsibilities. Every fastener we manufacture represents our unwavering commitment to safety, quality, reliability, and the trust our customers place in us. At Simplex Engineering, our fasteners help build the foundations of tomorrow’s infrastructure.”

Senior Executive, Simplex Engineering Company, Kolkata

Simplex has responded by investing steadily in its manufacturing base — adding advanced cold and hot forging, precision thread rolling, continuous heat treatment, automated hot-dip galvanising, in-house testing facilities and modern quality-management systems.

From raw material processing and forging to machining, thread rolling, heat treatment, hot-dip galvanizing, inspection and packaging, every stage is managed under a disciplined manufacturing system designed for consistency and traceability. That investment now underpins fastening solutions for power transmission and distribution, renewable energy projects, railway and metro infrastructure, industrial construction, utility networks and international EPC contracts.

QUALITY AS A DISCIPLINE, NOT A CHECKPOINT

What sets Simplex apart, the company argues, isn't just manufacturing capacity — it's engineering discipline. Every order is backed by technical application support, strict adherence to international specifications and full material traceability from raw stock to finished product. Beyond standard fasteners, the company develops custom-engineered components manufactured to customer drawings and international

specifications.

The company's manufacturing systems are supported by internationally recognised quality, environmental and occupational health & safety management certifications.

Quality control isn't confined to final inspection. It runs through incoming raw-material verification, in-process monitoring, mechanical testing, dimensional inspection and coating evaluation, with manufacturing certified to IS, ISO, ASTM, DIN, BS and AS standards — a spread that lets Simplex serve markets with very different regulatory demands without compromising on a single specification.

“Infrastructure is only as strong as the fasteners that hold it together.”

BUILT ON STRATEGIC PARTNERSHIPS

As its international footprint has grown, Simplex has positioned itself as a long-term partner rather than a one-off supplier — working with EPC contractors, utilities, OEMs, government bodies and industrial distributors who need dependable delivery as much as dependable parts. The company describes this as its real point of difference: relationships that outlast any single order.

Customers rely on Simplex not only for products but also for engineering guidance, application support and technical expertise throughout the project lifecycle.

That positioning matters as India expands its transmission networks, builds out renewable energy capacity and modernises its transport systems. Simplex is betting that the country's infrastructure boom will keep demanding exactly what it has spent four decades perfecting: components small enough to overlook, and critical enough not to.

SIMPLEX ENGINEERING COMPANY

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