

BODY IN WHITE (BIW) BUSINESS SOLUTIONS

Profile of Pennar

Pennar Industries Limited, an ISO 9001:2000 accredited company with advanced manufacturing facilities in Patancheru, Isnapur, Chennai and Tarapur, is a leading provider of precision-engineered Body-in-White (BIW) components for the automotive industry. Leveraging decades of expertise in high-strength steel processing and advanced forming technologies, Pennar specializes in delivering lightweight structural parts, crash-relevant reinforcements, welded assemblies, and customized BIW solutions designed to meet stringent OEM safety and performance standards. With a strong commitment to quality, innovation, and engineering excellence, Pennar continues to support the evolving needs of modern vehicle design and manufacturing.

2019

Established Year

150 Cr.

Investment

250+

Manpower

SAP

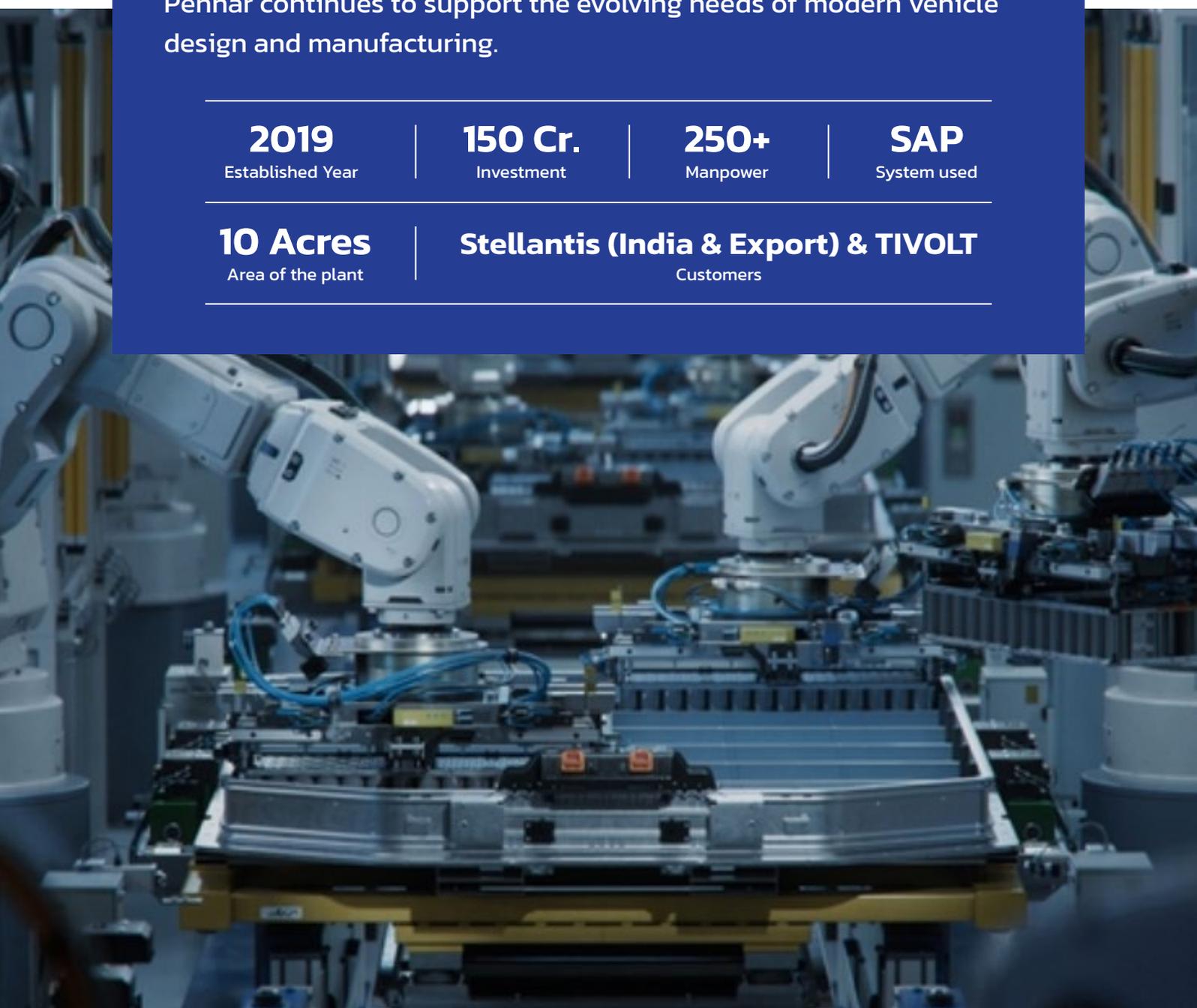
System used

10 Acres

Area of the plant

Stellantis (India & Export) & TIVOLT

Customers



Pennar provide major sub-assemblies for BIW construction which includes Roof, Quarter panels, Floor pan, Bulkheads, Floor cross members, A-pillars and B-pillars, all of which contribute, to a greater or lesser extent, to the stiffness of the vehicle. Pennar has a large portfolio of technologies, which allow working in different formats and materials. Productive processes that cover the entire value chain. From the internal capacity of manufacturing of Dies, to finishing technologies, and a wide range of forming technologies, as well as welding and assembly Pennar is the largest global supplier of hot stamping parts. Our press hardening production model cover the entire value chain from the manufacturing of our own dies to production lines. Cold forming allows us to manufacture a range of parts from small reinforcement parts to a complete car body side. We operate presses in the upper range of forces of greater than 1,000 tons and consequently we can stamp high strength materials. Ultra high strength steels are an important part of weight reduction solutions for the car body structure. As a result of greater demand for collision impact response and weight reduction in the structural components of the body, there is a growing use of high strength steels. Pennar experience in manufacturing processes and in the internal manufacturing of dies to work with HSS/UHSS materials is a guarantee of our product's quality.

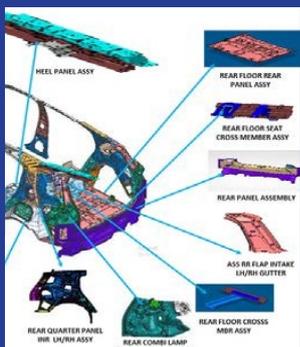
Pennar body shops use the most advanced technologies for assembling complex. We use parts resistant or spot welding in the welding of Ultra High Strength Steels. Our welding cells are typically highly automated, and we use automated robots to perform several of the most precise operations inside the welding cells to achieve maximum cost reduction and ensure we produce the highest quality assemblies. Pennar has Comprehensive range of services and strategic partnership across the world in hot stamping, light weighting technologies like aluminium and high strength steel amongst others. End-to-end solutions provider for all business segments including passenger vehicles, commercial vehicles and Off Highway vehicles.

Pennar Industries currently supplies to one of the largest automobile makers in the world – STELLANTIS, TI-Group, Ashok Layland, Hyundai, CEER.



Direct Stamping Components

At BIW, our 1,200-tonne heavy-duty presses produce body sheet metal components with a high tensile strength of upto 980 MPa, ensuring rigidity and durability for the body shell. These stamped parts include key components such as floor, door, dash panel, quarter panel, sill and other structural elements, enhancing overall strength.



Body Sub-Assemblies

Our body sub-assemblies are manufactured using advanced robotic welding assembly cells, ensuring high quality and reliability. These subassemblies are delivered on time to the customer's production line, where the final body is assembled. Panels are assembled using spot welding, while nuts and studs are secured through projection welding and capacity discharge projection welding. Additionally, we assemble and supply body parts to OEMs for both EV and ICE vehicles, showcasing our power-train agnostic expertise.



Light Weighting and Hot Stamping

In response to stringent environmental and safety regulations imposed by governments worldwide, hot stamping technology—widely established in the Western world and rapidly advancing in India—has become essential. Our BIW division leverages this advanced technology to produce components that achieve a weight reduction of 30 to 50% while promising greater strength. As a pioneer in South India, BIW is at the forefront of manufacturing these lightweight, high-strength parts, crucial for meeting evolving fuel efficiency and regulatory requirements.

Our Quality System

BIW UNIT – Marquee Clientele



COLD STAMPING



HOT STAMPING



ASSEMBLY



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