

EXPANDING HORIZONS, STRENGTHENING FOUNDATIONS.

Diversified Engineering Company
with End-to-End Capabilities



Keeping engineering excellence at the core

At Pennar Industries, our journey commenced in 1975. In the years that followed, we have continued to hone our capabilities, emerging as a leading value-added engineering products and solutions company. With a diverse portfolio that spans across sectors – including, but not limited to – infrastructure, automotive, railways and aerospace, we have carved our niche with our precision engineering expertise. Headquartered in Hyderabad and operating manufacturing facilities nationwide, we have continually expanded our capabilities to provide high-value engineering services, including design, development and comprehensive manufacturing solutions for our customers.

We started with a single manufacturing facility in Isnapur, Hyderabad. Ever since, we have remained focused on delivering unique and innovative engineering solutions. Our expertise in precision engineering has enabled us. Through strategic acquisitions and expansion, we have established a global footprint with 10 ISOcertified manufacturing facilities, consistently fulfilling evolving customer requirements.



Expanding Horizons, Strengthening Foundations

At Pennar Industries Limited, we have prioritised growth and innovation right from the outset, building a strong foundation over the past four decades. We have made our mark as a prominent player in the engineering and infrastructure sectors and are now seeking to expand our horizons.

A deep understanding of the markets we serve has enabled us to explore new horizons. By continuously innovating our products and processes, we have catered to diverse industries—spanning across automotive, railways, solar energy and construction sectors.

During the year under review, we focused on building a robust operational backbone to support our bold ambitions. This involved investing in cutting-edge manufacturing facilities, enhancing our workforce's skill sets and fostering a culture of continuous improvement—all aimed at ensuring that our progress is sustainable in the long term.

Going forward, we remain dedicated to lead with integrity, innovation and a deep sense of responsibility towards our stakeholders. While expansion remains an important aspect of our future strategy, we believe that our emphasis on specialisation will continue to set us apart. We will continue to invest in products, technologies and skills that are not fleeting trends but remain meaningful to our customers in the long run. We are certain that this strategic alignment will enable us to keep expanding our horizons and strengthening our foundations.

We are a Diversified Engineering Company with End-to-End Capabilities

Strong Pedigree & Engineering Excellence	Extensive Product & Service Offerings	Exposure to High Growth Solar, Electrostatic Precipitators	Subsidiaries
40+ Years of experience	 Wide range of customised engineering products catering to diverse sectors	 Automobiles	Enertech Pennar and Pennar Metals
10+ Manufacturing facilities	 Strong designing & manufacturing capabilities	 Construction & Infrastructure	Pennar Global
5+ Industries served	 Leading player in Pre-Engineered Buildings, Designing & Engineering Services with presence in USA	 Pre-Engineered Buildings	Ascent Buildings Pennar Global Metal Pennar Investments
100+ Customers		 Railways	Pennar GmbH Cadnum
5+ States		 Tubes	



Pennar is built on a firm foundation of exceptional customer service, strengthened by years of experience, professionalism and in-depth knowledge. Our commitment to ensuring engineering excellence informs every decision we make and every action we take, ensuring that we deliver only the finest to our clientele every single time.



Vision

To build trusted, high-quality products and solutions in the Precision Engineering Industry that enhance the competitiveness of our clientele and improve the quality of life for people everywhere.



Mission

To provide precision engineering and technical products and solutions that are responsive to our clients' needs in an innovative, costeffective and professional manner with the highest quality.



Values

Inclusion & Collaboration – Learning

Development & Digitisation – Innovation

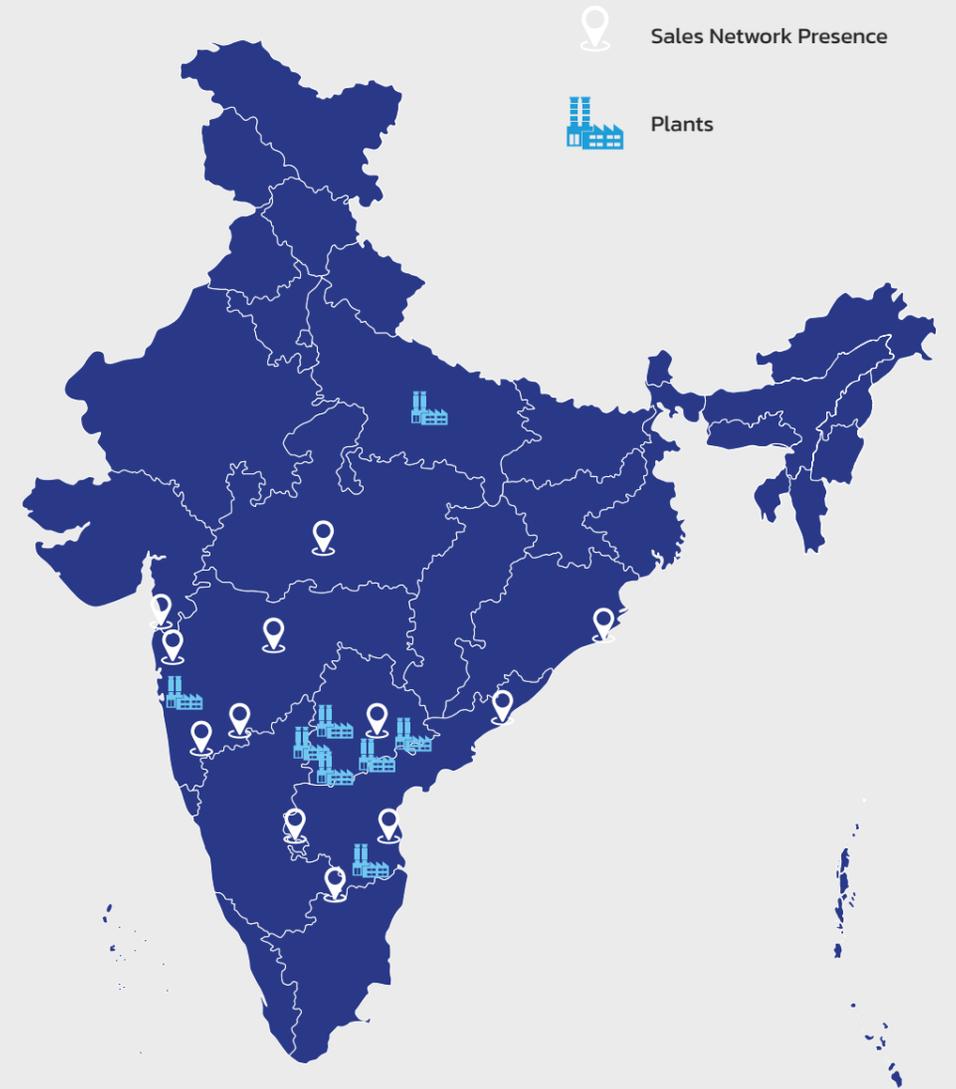
Customer Focused & Growth Oriented – Pride & Ownership – Engineering Excellence

Communication & Transparency People Centred

Expanding Our Reach Sustainably

We have established an extensive footprint across India, with strategically located facilities in key industrial hubs. This robust sales network enables us to efficiently serve diverse domestic markets while also catering to a wide array of international customers.

As part of our growth strategy, we are now scaling our global presence, especially in the US, European and Australian markets, to increase export contributions. By consolidating our position in these international markets, we aim to further diversify and strengthen our geographical presence beyond India.



Major Locations

India

- **Telangana**
 - Hyderabad
 - Patancheru
 - Velchal
 - Isnapur
 - Sadashivpet
 - Mallapur
- **Andhra Pradesh**
 - Visakhapatnam
- **Tamil Nadu**
 - Chennai
 - Trichy
- **Uttar Pradesh**
 - Raebareli
- **Maharashtra**
 - Tarapur

USA

- Tennessee
- Chicago

France

- Villebret

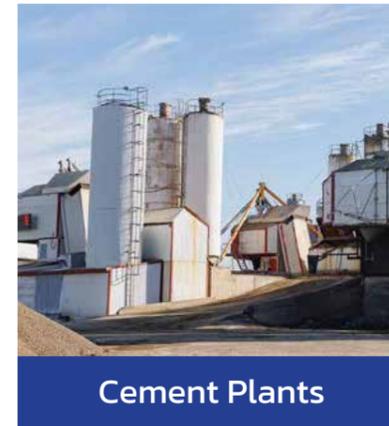
Germany

- Bad Homburg



An Ahead-of-the-curve Portfolio

Over recent years, we have judiciously diversified our product portfolio, considerably reducing our reliance on steel products and the railways segment, which previously dominated our revenue streams. We have now expanded our offerings to include a broader range of products, such as hydraulic cylinders, pressed components, cold-drawn welded (CDW) tubes and various other fabricated products.



Cement Plants



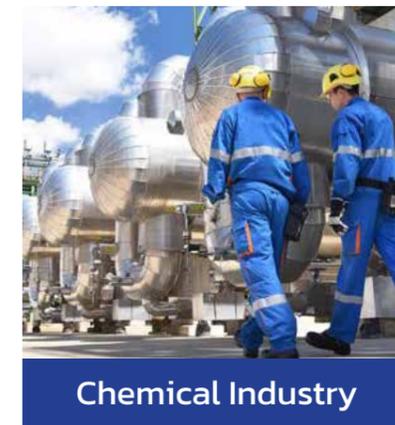
Agriculture



Construction



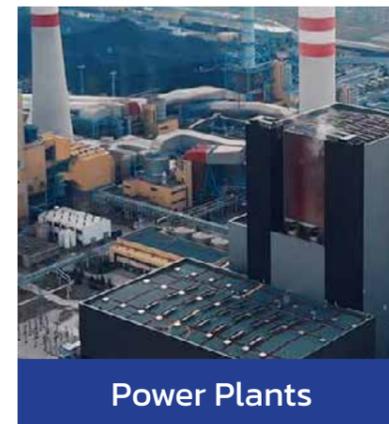
Marine



Chemical Industry



Mining



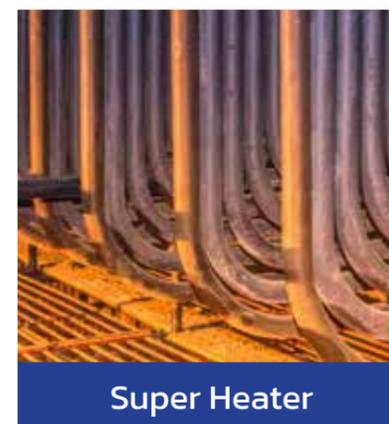
Power Plants



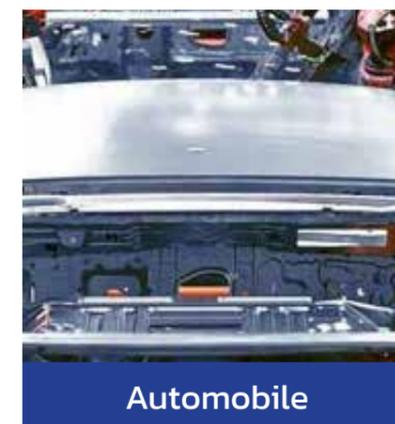
Ship Building



Paper Process



Super Heater



Automobile



Aerospace

Our distinctive advantage



Foray in growth-focused sectors

We serve clients from high growth sectors of the Indian economy such as solar, infrastructure, railways, construction and automobiles. With growing investments in these sectors, we are expected to unlock numerous opportunities for engineering excellence and thereby contribute to our growth.



Diversified product mix

Our portfolio, comprising of more than 1,000 products, serves the unique needs of industries such as automotive, general engineering, building and construction. This creates a diversified revenue stream for the Company and keeps it insulated from uncertainties in the market.



Technology-driven approach

Our state-of-the-art manufacturing facilities are equipped with laser cutting, plasma cutting, transfer presses and CNC machines. It enables us to manufacture customised and technologically fortified products for various industries.



Visionary leadership

With a visionary leadership at the helm, we offer a unique combination of talent and expertise that helps to shape the trajectory of a future-focused organisation. Our Board enables us to take informed decisions and create a value accretive business for diverse stakeholders.



Emphasis on quality

We strive to abide by the highest standards of quality for products manufactured at our facilities. Our plants are ISO 9001:2008 certified and we follow stringent quality control procedures to ensure customer satisfaction.



People power

We have a team of highly talented professionals that is dedicated to lead the way with our inherent quest for engineering excellence.



Our Subsidiaries – Building on a legacy of innovation and engineering expertise

Carrying forward our legacy of engineering excellence, our subsidiaries are equipped to set new standards of excellence and introduce innovative solutions for diverse sectors. Our collective expertise plays a pivotal role in our success in a dynamic business environment.

Pennar Global

Pennar Global Inc (PGI) is headquartered in Houston, USA. Its operations extend across the United States of America to deliver a wide array of products including Hydraulics, Precision Tubes, and engineering services. We have established a cutting edge Pre-Engineered Building (PEB) manufacturing facility in Portland, Tennessee. This strategic move enables us to create and distribute metal buildings of exceptional quality throughout the USA. Our robust distribution network ensures the seamless supply of our diverse product offerings, embodying a commitment to excellence and innovation.

Pennar Cadnum

Pennar Cadnum is headquartered in Villebret, France. It is an engineering & precision machining company. Company engages in moulds and patterns industry. Cadnum is a leading company engaged in the manufacturing of High end Tooling & Molding Systems, High Precision Engineering Components for Aerospace, Defence & Automotive Sectors for the last 24+ years.

Pennar GMBH

Headquartered in Bad Homburg, Germany, Pennar GmbH delivers engineering services to our clients in Europe. We cater to the Aerospace, Automotive, Energy, Oil & Gas, Building, and Infrastructure sectors. With a steadfast commitment to excellence, Pennar GmbH is poised to become a beacon of ingenuity, offering bespoke products and services that address the dynamic demands of these industries.

Ascent Building Systems

Ascent Buildings, LLC was formed because there exists a dire need in the pre-engineered steel building industry for a customer focused company, built on the principles of quality and service. In the automated and technology driven world in which we live, there is something important that has been forgotten... the basics of our business: building and retaining relationships, quality, and customer service. Those core values are what Ascent Buildings, LLC is founded upon, and what will drive us to ascend to the top of your list as the most trusted steel building manufacturer.

Pennar Metals Private Limited

Pennar Metals Private Limited wholly owned subsidiary of Pennar Industries Limited incorporated on 22th June 2023 (CIN No. U24105TS2023PTC174283). The Company main business to carry on business to trade in plates, manipulate alloy, special steels, stainless steel, cold and hot rolled steel, bars, rods, all types of materials and all kinds and sizes of re-rolled sections, i.e., flats angles, rounds, Iron, squares, hexagons, octagons, rails, joints, channels, steel strips, sheets, plates, deformed bars, plain and cold twisted bars, bright bars, and steel structure.

Enertech Pennar Defense and Systems Private Limited

Enertech Pennar Defense & Engineering Systems Private Limited (CIN - U74999TG2018PTC123704) incorporated on 10th April 2018 with its registered office at 2-91/14/8/PIL/10 & 11, 6th Floor, Whitefields, Kondapur, Hyderabad, Kondapur, K.V.Rangareddy, Serilingampally, Telangana, India, 500084. Company is engaged in the business of civil, Mechanical, Electrical and consulting engineers in the field of Pre-engineering, Prefab building construction of residential, Industrial & Commercial purposes.



ABC0 - Sunbelt



SNW - SBC School



Marietta Church



Elite Gymnastics



Liberty Pole Spirits



James Hardie

Divisions

PEB (Pre Engineered Buildings)

Precision Tubes

Process Heating

Hydraulics

Engineering Services

Tech Pennar

Body in White

Custom Engineered Products



PEB
(Pre Engineered
Buildings)

Pre-Engineered Buildings

Reiterating our focus on engineering expertise, we have introduced a highly advanced product, Pre-Engineered Buildings. It has proved to be an excellent example of architectural brilliance. Utilised for various structural applications for industrial, commercial and institutional purposes, it reflects the distinct requirements of every project. The design focuses on meeting client specifications and our engineering expertise has enabled us to set new benchmarks with the unique designs of our Pre-Engineered Buildings.

Our products in following sectors



Multistorey Buildings



Modular Solutions



Structural Steel & Bridge Girders



Engineering Services



Wadi



MH-1979-A01 LODHA, MUMBAI



Indospace 1960 B100 Exit View



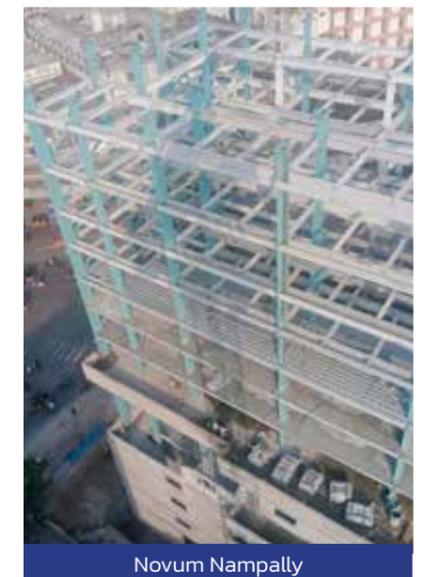
MH-1903 KAPL, Solapur



MH-1903 KAPL, Solapur



ATC - Mopa Airport, Goa



Novum Nampally



Process Tubes



Precision Tubes

We produce Low carbon, Medium carbon, High Strength Low Alloy (HSLA) tubes and Stainless Steel for Automobile Industries, Bi-Cycle Industries, General Engineering, Textile Industries, Boiler/Air Preheater Industries & other Engineering trade segments. We manufacture different shapes like Round, Square, Rectangle, Hexagonal and profile tube as per customer requirements.

Pennar Industries Tubes Division serves most Automobile customers like M&M, Hyundai, Ford, Toyota, Ashok Leyland, TATA, KIA, VECV, TVS, Bajaj, RE etc. It is also a key player for Textile equipment, hydraulic cylinders manufacturers and the Power Sector. With an overall revenue of 20%, Pennar Industries Tubes is exporting across continents from USA to Europe & Australia to Africa.

Providing our customers the utmost quality products being one of our key focuses, we meet all stringent quality standards with all the tube mills having an online ECT Certification. Our plant is IATF 16949 certified and recognized by the Central Boiler Board as a top-tier tube manufacturer. We adhere to IMS standards for safety and environmental compliance. The facility is equipped with dedicated labs for both destructive and non-destructive testing, along with advanced equipment for mechanical parameter analysis, including microscopy and spectrometry units.

Features

- High strength R.M upto
- YS 750 Mpa
- Mirror finish
- Controlled micro-level dimensions
- Different geometrical profiles
- Non-corrosive
- Environment friendly

Applications

- Auto sector
- Textile
- Energy sector to IBR/APH
- Hydraulic Cylinders
- Gen Engineering

Europe : BS EN10305 -2/BS EN10305-3/DIN 2393

American : ASTM A513 & J525

Indian Standard : IS 3074/4923

Japanese : JIS G3445

Tubes types manufactured by Pennar

- ERW Tubes
- CDW / DOM / CEW Tubes
- Precision Tubes
- Bicycle Frame Tubes
- Steel Tubes for Automobile
- Engineering Tube
- Boiler Tubes
- Heat Exchanger Tubes
- Propeller Shaft Tubes
- Transformer Tubes
- Fuel & Air Tubes
- Automotive Shock Absorber
- Furniture Tube
- Structural Tubes
- Telescopic Front fork Tubes
- APH & IBR



Precision Heating

Process Heating

At Pennar Industries, we are dedicated to provide innovative and energy-efficient Process Heating Solutions that meet the demanding needs of industries across the globe. Our range of boilers is engineered for reliability, performance, and sustainability, catering to power generation Rice Process, F&B, Heat Recovery solutions in steel and cement sectors.

Turbo Steam Boiler

Eco Steam Boiler

UltraSteam Boiler



Turbo Steam Boiler

Bubbling bed up to 6tph @ 17.5 kg/cm²



Eco Steam Boiler

Stationery grate - 10 TPH @ 17.5 kg/cm²

Bubbling Bed - 2-10 TPH @ 10.54/17.5 kg/cm² (g)

Reciprocating grate - 6-16 TPH @ 10.54/17.5 kg/cm² (g)

AFBC - 16 TPH @ 17.5 kg/cm².



UltraSteam Boiler

Upto 6tph @ 17.5 kg/cm² stationary grate

Waste heater recovery Boiler

Capacity up to 110 TPH @ 110 ata, 540 Deg C, AFBC

Boiler up to 150 TPH @110 ata, 540 deg C and Grate

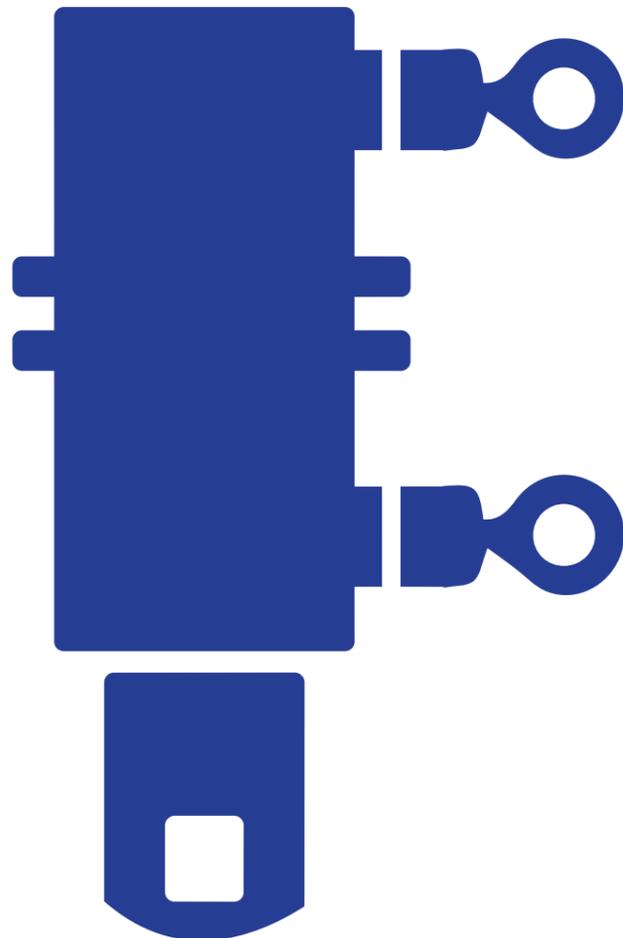
Boiler up to 250 TPH, @ 89 ata 520 D





Hydraulics

With over a decade of experience in the design, engineering, and manufacturing of standard and customized hydraulic cylinders, Pennar Industries Hydraulics has developed extensive technical expertise to serve a wide range of applications across global markets.



Our Skill Set

- The ability to conceptualize and design complex and large size cylinders for different applications
- High Professional 3-D Modeling Tools such as CREO, AUTO-CAD
- Capable technical team to bespoke customer design & meet customer requirements first time right
- Demand Flow and Continuous Flow Manufacturing techniques which help to meet customer requirements on time
- Strong supply chain network that spans across USA, Taiwan, China, Romania, Italy and Singapore giving us a competitive advantage on global sourcing and procurement
- Pennar has supplied over 200K cylinders to the USA and Europe building trust and a long term relationship

We Serve Standard and Customised Cylinders for



Agriculture and Farm Equipment



Industrial Hydraulics



Construction Equipment



Material Handling



Refuse Disposable Equipment



Truck Hydraulics



Hydraulic Applications like Pitch Cylinders for Windmills, Mining Equipment, Rescue Equipment and Marine Offshore Applications



Our state-of-the-art manufacturing plant, spread over 40 acres, is located on the outskirts of Chennai. A 1,000+ professional army works diligently here to produce top-notch engineered products with an advanced 7 stage painting facility.

Hydraulics

With a strong presence over a decade in hydraulics, Pennar Industries has the expertise to serve global markets with standard and customized solutions. Our technical knowledge spans customized segments such as agriculture, construction, industrial, and truck hydraulics, as well as specialized applications like pitch cylinders for windmills, mining equipment, snow ploughs, and marine offshore use.

At Pennar Industries, we specialize in designing and manufacturing complex, large-size hydraulic cylinders for various applications. Our team of experts utilizes professional 3D modeling tools and a capable technical team to create custom designs that meet our customers' specific needs. With over 500,000 cylinders supplied to the USA and Europe, and a strong supply chain network spanning the USA, Taiwan, China, Romania, Italy, and Singapore.

At our facility, we use state-of-the-art CNC machines and have a meticulous automated assembly process to produce top-notch hydraulic cylinders. Effective product design verification and validation covers the selection of material application environment duty cycle and life expectancy. Operating conditions are simulated to arrive at the best Design solutions. Tests are deployed to determine the function, reliability, and endurance of cylinders. Burst test, Pulse testing, back-to-back endurance, Pressure testing, Load test equipment to test and improve the reliability of the cylinders.

- ADVANCED AUTOMATIC ASSEMBLY LINE
- PRESSURE TESTING RIG
- TUBE FACING AND CHAMFERING
- VMC & CNC
- WELDING SPM & Robotic
- COMPONENT WASHING MACHINE

Validation lab

- ENDURANCE TEST RIG (LIFE CYCLE TEST RIG)
- BURST TEST RIG
- SLURRY TEST
- FATIGUE TEST (PULSE TEST)
- LOAD TEST EQUIPMENT
- SALT SPRAY CHAMBER



Precision Fabricated Assembly

Pennar Industries manufactures high-precision components for construction equipment and off-highway vehicles, including loader arms, dippers, booms, buckets, and sub frame/support arms. Our state-of-the-art facilities are equipped with advanced equipment such as a Boschert Precicut Plasma turret punch machine, high tonnage Durma press brake, robotic welding, shot blasting, and painting capabilities, allowing us to efficiently produce small to large components on time. We are dedicated to providing high-quality products to meet the needs of our customers.



Automotive Components

As a manufacturer of critical automotive components including brake and suspension systems, auto electricals, and structural assemblies, Pennar Industries has the experience and capability to handle high volume production. Our product development cell is equipped to address customer-specific requirements and develop custom solutions. We are dedicated to providing top-quality products and meeting the needs of our customers.



PSA

We manufacture high-precision components for construction equipment and off-highway vehicles, including loader arms, dippers, booms, buckets, and sub frame/support arms.

The state-of-the-art facilities are equipped with advanced equipment viz., boschert precicut plasma turret punch machine, high tonnage durma press brake, robotic welding, shot blasting, and painting capabilities.

They allow us to efficiently produce small to large components on time.



White Goods

Pennar Industries has wide expertise in handling critical, customized components for white goods applications, pioneers in deep-drawn components we have come a long way in establishing a world-class plant at Patancheru to meet global standards.

- Shearing Machine
- Laser Cutting M/c
- CNC Controlled Punching M/c (Combi Cut).
- CNC Controlled Press Brake M/c.
- Laser Welding M/c
- Pulse MIG Invertor
- CNC Turret Punching
- CNC Press Brake
- Amada Laser Cutting
- CNC Plasma Cutting
- Spot Welding
- Press Ranging From 40 Ton – 1200 Ton
- Spm Welding & Roll Forming
- Servo Control Welding SPM
- Laser Welding
- 500 Ton Press With Coil Feeder



Engineering Services

Structural Engineering Services



Structural Detailing

Pennar offers a quick, error-free complete line of detailing services using the latest version of Tekla Software, AutoCAD and customer proprietary software.

PEMB Design

Pennar offers design of Pre-Engineered steel Buildings with AISC, MBMA, AISI, AWS, ASD and LRFD standards and practices using software like Staad Pro, MBS and customer proprietary software.

Connection Design

Pennar Industries facilitates structural steel connection design & engineering support and provide complete detailed drawings for a wide variety of projects across the globe.

Estimation of PEMB & Structural Steel

Pennar offers Estimation (Quantity take-off) of PEMB and Structural steel projects to help the customers in preparing the budgets and arrive at the project costs or BOM

Our estimation includes:

1. Structural Material Take-Off
2. Miscellaneous Take-Off
3. Advanced Bill of Material

Projects worked include

- Schools
- Hangars
- Warehouses
- Commercial Buildings
- Industrial Buildings
- Residential Buildings
- Institutional Buildings
- Offices
- Retail Stores
- Shopping Centers
- Wastewater
- Management Plants
- Industrial Plants
- Convention Centers
- Stadiums





Pressure Vessels and Heat Exchangers

Pressure Vessels and Heat Exchangers



Pennar Industries manufactures high-quality Pressure Vessels and Heat Exchangers designed for performance, safety, and durability across industries like oil & gas, power, and pharmaceuticals. With ASME-certified facilities and strict quality control, we deliver reliable, energy-efficient solutions tailored to customer needs.

We are approved vendor for following PSUs/PMC's/EPC's (Partial List)

- Nuclear Power Corporation of India Limited
- Department of Atomic energy (DPS)
- PDIL
- TOYO India
- UDHE India
- Samsung Engineering, Noida
- Jacobs Engineering, Mumbai
- Linde Engineering, Vadodara
- Technip KT India, Noida
- Tecnimont ICB, Mumbai
- Indian Oil Corporation Limited (AllRefinery & Project)
- Bharat Petroleum Corporation Limited
- Hindustan Petroleum Corporation Limited
- Essar Oil Limited.

Industries Served

- Oil & Gas
- Petrochemicals
- Refineries
- Power Plants
- Nuclear Industry
- Steel Plants
- Mineral Benefaction Industry
- Fertilizer Plants
- Chemical Units
- Pulp & Paper Industry
- Water Industry (Desalination, ETP, MD/RO)



Equipment Name	Purge Column
Shell Thickness (mm)	23
Shell Thickness (mm)	29380
Diameter (mm)	ASME Sec VIII Div. 1
Applicable Code	6000
Weight (MT)	120
Design temperature Shell Side (OC)	125
Design Pressure Shell Side(Kg/Cm2)	4.4/-0.25
Material of Construction	CS/SS Cone



Equipment Name	Guard Drier
Design Pressure	41.2 Kg/cm2
Design Temp	46°C / 95°C
Material of Construction	SA 516 GR.70
Shell Dia.	4000mm
Length	4400mm
Weight	70 MT
Shell Thickness	66mm



Equipment Name	HP Air Receiver
Design Pressure	34 Kg/cm2
Design Temp	65°C
MOC	SA 516 GR
Shell Dia.	60/70.
Length	4500mm
Shell Thickness	17850mm
Weight	50mm



Equipment Name	Tail Gas Drum
Design Pressure	4.49Kg/cm2
Design Temp	65°C
MOC	SA 516GR 70
Shell Dia.	3000mm
Length	14520mm
Shell Thickness	16mm
Weight	22MT

Tech Pennar

BIM (Building Information Modeling)

Plant & Product Engineering Services

Industrial Automation

BIM (Building Information Modelling)

It is important for CAD architects to understand the concept of building design for public infrastructure. We offer a suite of virtual and design construction expertise to clients.



Pennar collaborates & works across various construction projects related to

- Commercial and High-Rise Buildings
- Production Facilities
- Data Centres
- Health and Educational
- Constructions
- Industrial and Distribution

While designing a new facility, Pennar works on intricate details and specifications according to construction plans. We classify critical processes, raw materials, resources, value supply chains to create appropriate digital models of proposed buildings. As digitization is essential, the latest CAD software is used to generate multifaceted BIM apparatus. Our experience across industries assists clients to visualize the final structure through automated 2D and 3D CAD drawings.



Pennar Industries BIM Services

Construction BIM

- 3D Modelling and Shop Drawings
Architectural / Structural / MEP
- Clash Detection and Resolution
- Quantity Take Off – 5D
- Rebar Modelling and Drawings
- Construction Simulation – 4D

Scan to BIM / CAD

- Point Cloud Data Conversion to BIM
- As-Built Validation / 3D Models / Drawings / Documents • 360° Panoramic Views

City Mapping

- Digital Twins
- IoT

Facility Management

- Facility Management
- Asset Management
- Preventive & Predictive Management (7D Stage)
- Occupancy Management
- Construction Operations
- Building Information
- Exchange (COBIE)

CAD API Programming

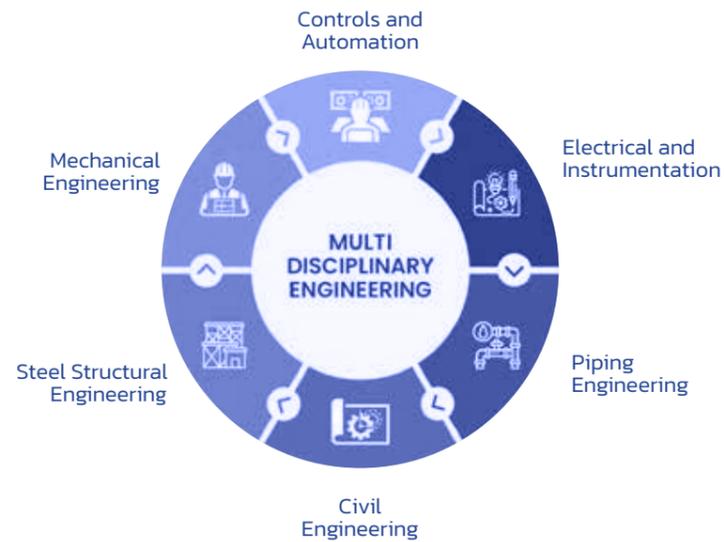
- Design Process Automation
- Drafting Automation
- Macros Development
- API and Toolbar Customization
- User Interface Creation

Infrastructure BIM

- Infrastructure Modelling and Drawings

Plant & Product Engineering Services

Product engineering keeps changing and it is important to have a competent team to provide services related to rapid changes and developments. Choose Pennar as a strategic partner for upgrading your legacy systems and transforming plant productivity.



Electrical and Instrumentation

- Library Creation
- Single Line Diagram
- Hook-up Drawings
- Schematics Preparations
- Layouts – Cable trays
- Earthing & Lightning
- Calculations – Load and Power
- Loop Schematics

Piping Engineering

- Supports & Hangers
- Piping General Arrangement (GA)
- Piping Isometrics/ Spool Drawings
- Stress Analysis Report
- Parts list/ BOM/ MTO

Civil Engineering

- Construction Drawing preparation
- CAD conversion
- Foundation drawings preparation
- MTO / BOM preparation

Steel Structural Engineering

- Design and Analysis
- Steel Detailing and estimations
- Structural Steel connections drawings
- Rebar estimation and detailing
- Precast estimation and detailing

Mechanical Engineering

- HVAC and Firefighting system Detailing
- Component Sizing and Selection
- Process Equipment
- Equipment Data Sheet

Controls and Automation

- HVAC and Firefighting system Detailing
- FAT / SAT / Testing services
- PLC / DCS Programming

Application Portfolio

Onshore

- Oil / Gas Gathering Stations (OGS/GGS)
- Early Production Facilities – (EPF)
- Refinery Units
- Petrochemicals facilities
- Tank farms / Terminals

Offshore

- Offshore Platforms
- Jack up Rings
- Mobile Offshore Production Unit (MOPU) – FPSO, Semisubmersible
- Mobile Offshore drilling unit (MODU)

Pipeline & Transportation

- Compressor & Metering Station
- Pump Station
- Pig Launcher /Receiver
- Pipeline Control Room
- Terminal Automation (Truck, Rail, Ship)

Static

- Pressure vessels
- Heat, Shell & Tube Exchanger
- Air Cooled Heat Exchanger
- Hairpin Exchanger
- Finned Tubes
- Boilers

Modules

- Chemical Injection Systems
- Metering Systems
- Clean in process skids
- Fire & Gas Modules
- MEG/TEG Modules
- Air Separation and Hydrogen
- Generation Units Pressure

Industrial Automation



Pennar Industries specializes in design engineering and provides Integrated turnkey industrial automation solutions based on state-of-the-art PLC-SCADA-DCS and other operation technologies. In addition, we provide customized industry specific software interface technologies (IT-OT platform). We offer these specialized solutions across multiple industries that includes- Oil & Gas, F&B, Automotive, Agriculture, FMCG, Infrastructure and Utilities, Mining and Minerals, Metals, Energy, substation automation, HVAC, standalone machines, skids etc.

We are the preferred engineering partners for Original Equipment Manufacturers (OEMs), Engineering, Procurement and Construction (EPC) organizations, System Integrators and Solution Providers, process and production companies covering a wide range of industries and applications including the following services:

- Automation solutions
- Operation technology-based solutions
- Electrical & Control panels
- Services

Among the automation systems and software manufacturers, our company collaborates with the following

PLC	DCS
SCADA	CNC/Robotics

SIEMENS



Honeywell



ABB

OMRON



FANUC



**Body in
White**

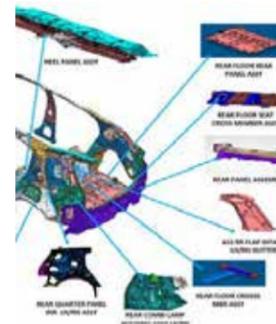
Body in White (BIW) Business

Pennar provides 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 the stiffness of the vehicle. Pennar boasts a comprehensive portfolio of technologies that enable operations across various formats and materials. Our processes span across the value chain — from die manufacturing to cold and hot forming production lines, allowing to manufacture wide range of automotive body parts. With high-capacity presses exceeding 1,000 tons, we are equipped to stamp even the most advanced high-strength materials.



Direct Stamping Components

At BIW, our 1,200-tonne heavy-duty presses produce body sheet metal components with a high tensile strength of up to 780 MPa, ensuring rigidity and durability for the body shell. These stamped parts include key components such as the floor, 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. 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.

Custom Engineered Products

Industrial Components Business (ICD)

Steel Products and Profiles

Railway Sub Assemblies

Solar Panels

Aerospace Products

Chemicals & Fuel Additives

Solar Structures



ICD

Industrial Components Business specializes in the development of safety-critical and high-performance components for both domestic and international markets. With our in-house prototyping and development capabilities, we partner with our customers to create customized products for the hydraulics, industrial components, Precision fabricated assembly, and white goods sectors.

Our state-of-the-art manufacturing plant is located on the outskirts of Chennai, which Spreads across, 40 acres. Our facility is home to a platoon of 1000 plus professed talents working diligently to produce top-of-the-line engineered products.

Pennar Industries has a state-of-the-art validation lab with equipment such as

- Pressure testing upto 6000 PSI
- Burst test equipment
- Salt spray chamber
- Pulse test rig
- Back to back endurance test rig
- Weld Macro Inspection
- Load test equipment
- Millipore- part cleanliness test
- Form Tracer
- FARO CMM- with scanner

Aerospace Products

Pennar Industries has a dedicated Aerospace manufacturing division that serves Export/Import customers with its world-class manufacturing capabilities. Established in 2019, the division has made a name for itself in the list of top suppliers in India. The division is listed in Trade India's list of verified sellers offering supreme quality.

The manufacturing unit in Hyderabad, Telangana is strategically located very close to the outer ring road, and caters to the aerospace and defense industries. In addition, we have a precision manufacturing unit in Villebet, France, which caters to the tolling requirements in the aerospace industry. Our management team is well experienced and exposed to handling both export and import orders from across the industry.

Our capabilities include 3-axis, 4-axis and 5-axis machining services upto 9M which can produce 5-micron tolerances, state-of-the-art Carl Zeiss CMM, Wire cut, EDM alongside a few conventional

machineries. In the pipeline is also a cleanroom setup which will add structural and mechanical assemblies to our capabilities list. Apart from cutting materials like Aluminium and Steel, we are also pioneers in cutting exotic materials like Titanium, Inconel and Tungsten.



Railway Sub Assemblies

With public transportation facilities assuming greater significance by the day, the requirement of the railway wagons and coaches for Indian Railways is growing exponentially. Pennar's Railways business has been catering to the requirements of the Indian Railways for over 2 decades. With a dedicated manufacturing facility for this industry, we are a leading tier -1 supplier for the Indian Railways.



Pennar Industries provides several critical structural and stability components for goods wagons and passenger coaches. With RDSO & RITES certification for manufacturing facility as well as products, we are a preferred supplier for this sector, which is a veritable lifeline for India.

Solar Panels

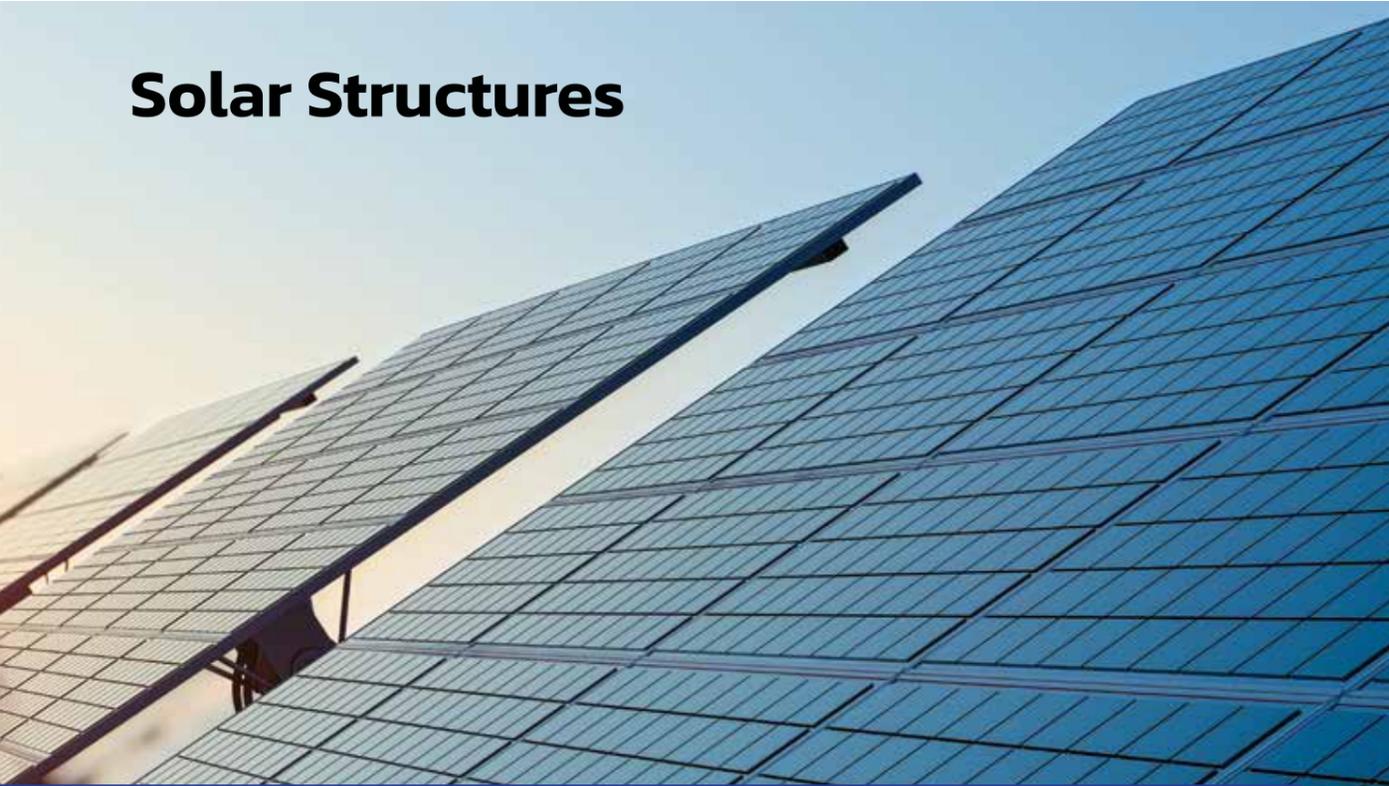
In 2019, Pennar Industries established a state-of-the-art photovoltaic solar module manufacturing facility spanning 2 lakh sq. ft. in Sadasivpet Mandal, Sangareddy district, Telangana (India). The plant has an annual production capacity of 250 MW and manufactures Polycrystalline, Monocrystalline, and Bifacial photovoltaic solar modules ranging from 315 Wp to 400 Wp. All modules are tested and certified by TUV Rheinland and comply with relevant IEC and BIS standards.



We are an ISO 9001 certified facility successfully audited by the National Institute of Solar Energy (Govt. of India) and certified under approved ALMM supplier. We have manufactured & shipped more than 200+MW of Solar Modules to 70+ Happy Customers installed at 500+ Sites to with exceptional performance.

We have our headquarters in Hyderabad along with our Sales Offices in Delhi, Mumbai & Ahmadabad with a team of 200+ professionals.

Solar Structures



As a leader in the solar energy sector, Pennar Industries is committed to drive the transition to renewable energy through our innovative Solar Module Mounting Structures. Our expertise in the Solar EPC market, combined with our state-of-the-art manufacturing capabilities, positions us to meet the growing demand for sustainable energy solutions. With diverse applications and a dedication to quality assurance, we continue to establish strong partnerships with clients across various sectors, contributing to a greener and more sustainable future for India and beyond. Through our relentless pursuit of excellence, we not only provide reliable solar solutions but also empower communities to embrace clean energy for generations to come.

We also have an in-house tool room that caters to the requirements of projects with various sectional requirements. These unmatched features have enabled us to service the requirements of various customers, thus establishing us as the market leaders in Solar Module Mounting Structures.

The biggest advantage that customers have in choosing Pennar Industries for their Solar Module Mounting Structures is the strategic location of manufacturing plants. Our plant at Tarapur is close to the epicenter of Solar projects in Gujarat & Rajasthan, while our plants in Chennai, Patancheru & Isnapur can cater to markets in AP, Tamil Nadu, Orissa, Karnataka and other neighbouring states.

Pennar Industries's Solar Module Mounting Business Offers our Customers Some Characteristic Benefits

- Large manufacturing capacity that enables quicker delivery
- A vast spectrum of sectional dimensions and thickness, due to our in-house tooling facility
- Reduced overall cost of structure and in turn reduced cost of solar power project
- Optimization of mounting structure weight



Pennar Industries Caters to the Structural Requirements of Various Categories Such As

- Solar Parks
- Grid Connected Solar Projects
- Off the Grid Solar Projects
- Roof Top Solar Projects
- Captive Solar Power Plant

We Supply Structures To Most EPC Companies, Project Developers, Independent Power Producers, Captive Power Units For Commercial & Industrial Entities, And Several Others.

Steel Products and Profiles



Being one of the first companies to venture into the narrow cold rolling and profiles business in India, Pennar Industries leverages this innate advantage to offer its customers the widest range of profiles to choose from. We are the market leaders in terms of capacity and variety of profiles with a production capacity of 240,000 MT per annum, with a significant footprint all across Asia.

A leading provider of Steel Solutions, Pennar's Steel Products and Profiles division manufactures

- Cold Rolled Steel Strips (CRSS) from a variety of grades of steel including special steel and
- Cold Roll Formed Sections (CRFS) that find application;
 - Building Components and Infrastructure
 - Automobile Profiles
 - Metal Crash Barriers
 - Sheet Piles
 - ESP Electrodes



Customer Benefits

- Ability to mass produce a wide range of complex profiles for the industrial and infrastructure sectors
- Expertise and experience in working with special grades of steel
- Niche application support
- In-house tooling and manufacturing facilities for new products resulting in shorter go-to-market cycles
- Multi-locational manufacturing facilities equipped with best-in-class facilities



Chemicals & Fuel Additives

Pennar Industries has nurtured to be a pioneer in the field of additives, supplying specific premium high technology additives based on fuel characteristic requirements. It is the authorized manufacturer and marketer of Elf Fuel Oil Additives, having a technical collaboration with TOTAL, France (fourth largest petroleum company in the world).

The company has diversified its product range into five different segments.

The following listed are the different segments:

- Additives for Heavy Fuels
- Additives for Solid Fuels (Coal, Lignite, Pet coke etc.)
- Storage Stability Additives
- Additives for Agro Fuels (Bagasse, Briquette & Agro Fuels etc.)
- Additives for Light Oils
- Industrial Cleaners & Degreasers

A specially formulated compound in solution in an aromatic solvent which is readily soluble in fuel oil and which acts as a combustion catalyst by increasing the speed of oxidation of unburnt hydrocarbons during the process of heavy fuel oil combustion.



Combustion Improver Catalyst is a flexible way to optimize the use of heavy fuel oils and exhibits the following main properties:

- Significantly reduces the amount of soot and unburnt hydrocarbons (more than 50%) formed during the combustion of heavy fuel oils
- Allows reducing the excess air used during the combustion process
- Improves the flame homogeneity and allows to achieve a more stable yield of combustion
- Reduces deposits on heat transfer surfaces and consequently allows to achieve a more efficient heat transfer in the convection zone
- Therefore, reduction in fuel consumption is achieved

Benefits of Using Combustion Catalyst:

Chemical:

- Increases speed of combustion of oil.
- Accelerates combustion of unburnt hydrocarbons

Mechanical:

- Reduces excess air requirement
- Reduces heat loss through heat transfer
- Enhances heat transfer efficiency

Economic Benefits:

- Effects 3–4% fuel savings, and enhance life of equipment
- Sludge converts into good oil. Saves time, effort, and labour by avoiding tank cleaning

Environmental Benefits:

- Reduces smoke, soot and particulate matter in flue gas
- Reduces NOx by at least 30%; avoids sludge formation and hence sludge handling difficulties



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