



CMI INDUSTRY
Metals

CMI FPE

**Engineering
your global
success**



Steel is one of the most important industrial sectors in India due to its wide application across sectors. These sectors require high quality products which support economic growth such as infrastructure, machinery, power and railways. At the same time, the steel industry is facing major changes with challenging new market conditions that require a high degree of flexibility in order to meet the complex needs of customers.

As an expert in industrial processes, CMI FPE supplies steelmakers with a complete range of tailor-made cold rolling complexes and all their related equipments that are innovative and efficient. Our facility boasts of state-of-the-art technologies for producing equipments for value added steel manufacturers. We also provide technological solutions for reducing environmental footprints and our aim is to improve the economic and technical performance of our customers' equipments.

We have devoted much of our efforts to make innovations available to our customers. Innovations in process which ensure high availability of the equipment, increase productivity and minimize operational costs year after year. We are convinced that these are the factors which are the key to the global success of any business.

This brochure is an insight into our portfolio of technologies and shows how we can work to meet your requirements. Please take a look at what we can offer and give us a call. We look forward to meeting you in person to discuss any ideas you may already be contemplating.

Raman MADHOK
Managing Director
CMI Group Head – South Asia



CMI FPE has a global presence across Asia, Africa, Middle East, Europe, North and South America

A Global Indian Company

CMI FPE Limited (formerly known as Flat Product Equipments India Limited) was incorporated in 1986. In the three decades since, the company has acquired a global leadership position in the design, manufacture, erection and commissioning of cold rolling mill complexes, processing lines, chemical equipment, industrial furnaces and auxiliary equipment for the worldwide steel industry.

FPE was promoted by Late Dr. T R Mehta, a respected expert recognised for his influence on industrial technology. Dr. Mehta was internationally renowned for his significant contributions to the steel industry. He was also a key proponent of India's export initiatives by Indian and international trade associations. The Belgian group Cockerill Maintenance & Ingénierie (CMI) completed the acquisition of Flat Products Equipments (India) Limited in June 2008. Flat Products is now known as CMI FPE Limited.

Today, CMI FPE Limited has a global presence across Asia, Africa, Middle East, Europe, North America and South America.

Geared for Partnerships

CMI FPE employs over 500 personnel at its head office in Mumbai and two workshops outside Mumbai. These workshops are extremely well-equipped with state-of-the-art tools and assembly activities that conform to international quality and safety standards.

The organisation has carved a unique niche for itself owing to its comprehensive design and engineering solutions. Using cutting edge CAD/CAM software developed in close collaboration with its customers and engineers, every requirement can be specifically customised.

CMI FPE complements CMI's strategy for growth with minimal overlaps in products and a versatile range of technology synergies. The world over, CMI FPE is a preferred partner to supply innovative solutions for clean, reliable and efficient equipment for industrial complexes.



High quality products with optimized consumption and environmental protection

- Tailor-made solutions
- Technological innovations
- International project management
- Global sourcing
- Dedicated manufacturing plants
- Local presence
- High availability guaranteeing low operating costs
- Environmental awareness
- Safety management
- Advanced training programmes

Turnkey Solutions For A Fast Paced World

Steelmakers require high quality products. Their success depends on their capacity to respond to the global environment in terms of production and the adaptation of steel grades to changing requirements.

CMI FPE supplies a complete range of cold-rolling and associated technologies, including innovative solutions for steel processing lines, cold rolling mills, chemical and thermal processes and automation equipment for optimum plant performance. The product portfolio includes the supply of continuous pickling lines and cold rolling mills, as well as the revamping of hot and cold mills. Through its international network of operating companies, CMI FPE offers tailor-made solutions based on a diverse portfolio. Each of its areas of expertise is based on engineering, operation and maintenance know-how. By combining these various specialities, it occupies a position in the vanguard of leading-edge technological innovation for the modernization or construction of an integrated new plant, including electrical and automation systems.

In addition to designing equipment, CMI FPE also offers customer support programs to assist in the start-up of the new unit, including complete and flexible customised training sessions, operations and maintenance of equipment as well as erection and commissioning.



Sustainable Solutions For A Responsible Future

The demand for new equipment has also been influenced by worldwide awareness of the need to promote environmentally sustainable solutions. Technological innovations are also designed to improve the environmental performance of units already in operation and, as a result, our teams contribute to sustainable industrial progress, which benefits both our customers and the planet.

In the steel sector, CMI FPE is devoting resources to developing equipment and solutions dedicated to reducing energy losses in industrial processes.

CMI FPE has extended its core business to environmental technologies with a special focus on solutions applicable to the steel industry. It has pioneered innovative solutions through the implementation of the latest technologies in various new equipment or revamping projects.

A multidisciplinary global approach is essential in the medium term in order to evaluate and optimize energy use in a specific industrial site.

In addition, CMI FPE also provides services to the steel industry in the upgradation and modernization of existing processing lines. Improving productivity, minimizing energy consumption and meeting environmental standards are some of the compelling reasons pushing steelmakers in the direction of revamping. Our solutions are fully compatible with an increased return on investment in the equipment and the upgrades improve the customers' competitive position.

Our teams contribute to sustainable industrial progress, which benefits our customers and the planet.

Ensuring Quality and Reliability Every Time

Safety is a prime consideration throughout all stages of the machine's life cycle: from design, through manufacturing, transport, installation, operation and adjustment to maintenance.

The relationship with customers continues after the equipment has been successfully commissioned and handed over. CMI FPE offers an extensive after-sales and spare parts supply service to minimize downtime. Teams are highly experienced and have access to multiple sources to ensure the fast delivery of critical parts at competitive prices. This enables CMI FPE to offer comprehensive maintenance programs, including preventive and regular maintenance designed to maximize productivity, produce a faster rate of return on investment and minimize operating costs year after year.

CMI FPE believes that there are two principles underlying safe operation:

Machine Safety and Reliability





Self-Sufficiency That Delivers Growth

CMI FPE fully understands the consequences for customers of a lack of proper training in operation and maintenance, which costs them a great deal in terms of loss of production and downtime.

Customers want to become self-sufficient as soon as possible. To help them achieve this, CMI FPE offers uniquely customized training programs which provide their operators, engineers, operation and maintenance supervisors with thorough training on any piece of equipment and any phase of the production cycle.

A know-how transfer program means that our customers are quickly able to begin producing high quality products, dramatically reducing wastage or rejection and speeding up returns on their investments.

CMI FPE offers uniquely customized training programs which provide their operators, engineers, operation and maintenance supervisors with thorough knowledge of operations.



Putting People First

CMI FPE Limited has at its helm, a team of professional managers who are committed to taking the Indian subsidiary to new heights of excellence. They continue to add value through their expertise and experience, ensuring that the team is at the forefront of knowledge and skills development.

Our people are our main assets: CMI FPE therefore prioritises their wellbeing by providing a safe work environment where they can nurture and add to their skill sets, thereby optimising career and self growth objectives.

CMI FPE has in place a well-articulated performance management system for its employees. Our team is provided with relevant training and knowledge enhancement inputs at regular intervals. Coupled with international exposure, opportunities for international collaborations and participation in technical meets, we ensure that our team stays ahead of the game, growing in capacity year on year to take on more diverse and developed responsibilities.



Our Offerings

The next generation in surface treatment solutions

- Strip Pickling Lines (push-pull and continuous)
- Pickling Lines (wire, plates, bars, tubes)
- Degreasing Sections
- Acid Regeneration Plants (ARP)

Worldwide professional team dedicated to your mill's success

- 4 High and 6 High Reversing Cold Mills (Single or Twin Stand)
- 20-High Cold Rolling Mills
- Tandems Cold Mills
- Continuous Pickling Lines
- 6-High Skin Pass Mills
- 4-High Skin Pass Mills
- 2-High Skin Pass Mills
- Modernization and Special Equipment for Cold/Hot Strip Mills

Mastering your cold route steel process

- Continuous Annealing Lines
- Continuous Hot Dip Galvanizing Lines
- Continuous Electro Galvanizing Lines
- Electrolytic Cleaning Lines
- Flux Type Lines
- Inspection/Correction/Tension Leveling Lines
- Dual Product Lines
- Processing Lines Special Equipment

Wide range of innovative thermal solutions

Carbon Steel: Horizontal & Vertical Furnaces for Continuous Galvanizing Lines (C.G.L.) and or Continuous Annealing Lines (C.A.L.)

- Non-Oxidizing Furnaces (NOF)
- Radiant Tubes Furnaces (RTF with Regenerative or Recuperative Burners)
- Blowstab® or Ultra Dry Cooling Equipment
- L-TOP® or LH-TOP Mathematical Model

Carbon Steel: Color Coating Lines (C.C.L.)

- Ovens (convection, IR, UV)
- Incinerators
- Dryers

Stainless Steel

- Anneal and Pickle Furnaces
- Bright Annealing Process Equipment

Silicon Steel

- Annealing/Pickling Process Equipment

Others

- Heat Treatment Furnaces for Steel & non-Ferrous
- Wastes Sludges and Fumes Treatment
- Carbonisation, Production and Regeneration of Activated Carbon
- Atmosphere Equipment Production



Automation and monitoring systems

- Automatic Gauge Control System (AGC)
- Thickness Gauge System
- Strip Guiding Systems
- Mill Management System
- Development of HMI with different screens
- Responsive spare parts center
- Software building and applications:
 - Furnaces & ARP Systems
 - Electrolytic Cleaningline, Pickling Line, Tension Leveling Line, Slitting Line
 - Application Cold Rolling and Skin Pass Mill: GL & CCL



CMI FPE is the Indian hub of CMI Industry. As an expert in industrial processes, CMI Industry designs, integrates, supplies and upgrades mechanical, thermal, chemical and biological treatment industrial equipment and energy efficiency solutions. CMI Industry also has the capability to supply steelmakers with cold complexes and all their constituent equipment.

Designed by CMI, these facilities boast state-of-the-art technologies for the production of sophisticated flat carbon steel. Some of these technologies are also available in equipment for processing other products such as stainless steel, silicon steel or long products.

To know more, visit us at www.cmigroupe.com/industry



CMI FPE operates
throughout the world and
continues to increase its
worldwide coverage in
response to the globalisation
of its customer base

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