

Continuous Passion.

Continuous Innovation.

Continuous Casting.



CONCAST (INDIA) LIMITED

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A continuing endeavour to exceed

Concast (India) Limited



Concast (India) was established in 1973 by the visionary entrepreneur, Mr. N K Nayar, as a joint venture with Concast AG of Zurich. At a time when the manufacturing of steel was very much in its infancy, Concast (India) pioneered the Continuous Casting Technology in India, which helped cast a brilliant future for the entire Indian steel industry. Since then, Indian steel production has increased multi-fold and Concast (India) commands a leading position in catering to the Continuous Casting needs of the rapidly growing industry. The company is proud of its unique position in the market, and of the trust of its customers, who are able to produce the highest quality steel in the most efficient and environmentally friendly manner.

A leading presence

Concast (India) enjoys a prominent presence across India. With its headquarters in Mumbai, and branch offices in Delhi, Kolkata, and Cochin, Concast (India)'s dedicated engineers and sales offices are strategically positioned to efficiently and quickly meet the needs of its customers across India and the world. Having consolidated its position in the Indian market with an installation base of over 475 machines, Concast (India) has rapidly expanded overseas and has machines installed in over 25 countries.

Concast (India) has tirelessly worked over the decades to provide the Indian and global steel markets with state of the art technologies, reliable equipment, committed after sales services and a pledge to ensure customer satisfaction. It is this that makes Concast (India) a driving force in the steel industry.



A continuous endeavour to exceed

Concast Milestones

- | | | | |
|--|---|---|---|
| 1973 Introduced Mini Steel Concept in India | 1994 Indian Seamless Steels & Alloys Ltd., Pune.
12 MR x 2Str. 1st Rounds CC in India | 2007 Bhushan Ltd., Sambhalpur, Orissa.
8 MR x 4 Str. 4 strand CC with radius 8m | 2008 Visvesvaraya Iron & Steel Plant, Bhadravati.
12 MR x 1Str. 12m radius CC for very special steel grades |
| 1975 Usha Martin Industries. First Billet Caster | 1995 Rajinder Steels Ltd., Kanpur.
6 MR 1Str. Narrow Slab CC | 2008 Viraj Alloys Ltd., Tarapore.
10 MR x 2 Str. 1st CC with radius 10.25m | 2010 Maithan Ispat Limited.
12.5 MR x 1(2) Str. 1st Beam Blank-cum-Bloom CC |
| 1983 Tata Iron & Steel Co. Ltd., Jamshedpur.
6 MR x 6 Str. 1st six strand CC | 1996 Thai Nguyen Iron & Steel, Vietnam.
4 MR 4 Str. Four strand CC for export | 2008 Adhunik Metaliks Ltd., Rourkela.
12 MR x 2 Str. 12m radius bloom CC with SPCO assistance | 2011 Visa Steel Limited, Bhubaneswar.
12MR x 3 Str. 12m radius CC with short rigid dummy bar |
| 1990 Kalyani Steels Limited, Pune.
12 MR x 2 Str. 1st Bloom CC with 12m radius | 1998 Jindal Strips Ltd., Hissar.
9 MR x 2 Str. 1st CC with Rigid Dummy Bar | 2008 Sunflag Iron & Steel Co. Ltd., Nagpur.
10 MR x 3 Str. CC with wide range of section sizes & steel grades | 2012 Usha Martin Industries Ltd., Jamshedpur.
9MR x 4 Str. 9m radius four strand CC |
| 1991 Mahindra Ugine Steel Co. Ltd., Khopoli.
9 MR x 3 Str. 1st CC with radius 9m | 2006 Bhushan Steel & Strips Ltd., Dhenkanal.
8 MR x 3 Str. 1st CC with radius 8m | | |
| 1993 SAIL, Durgapur Steel Plant.
2 nos. 6 MR x 6 Str. six strand CC | | | |

Continuous casting

Ladle Turret: Facilitates sequence casting and bay change for ladle



Overhead Cantilever Cars: Self-propelled rigid cars un-encumbering the casting floor



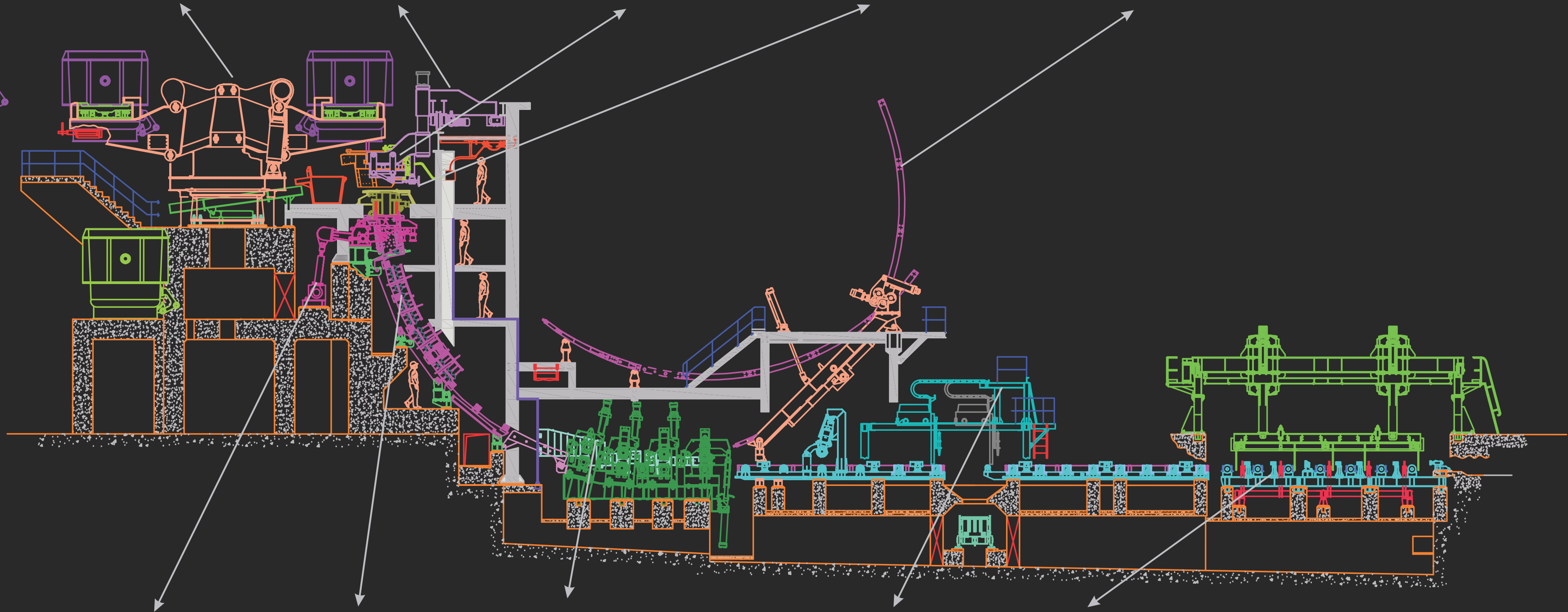
Cartridge Type Mould Assemblies with External EMS: Easy and quick section change



Automatic Mould Level Control System: Improved surface quality in both open and closed casting conditions



Rigid Dummy Bars: Fast turnaround times and section change times



Mould Oscillator: Robust and rigid oscillators with servo actuation



Sturdy, but minimal strand guide equipment: With automatic control of spray water



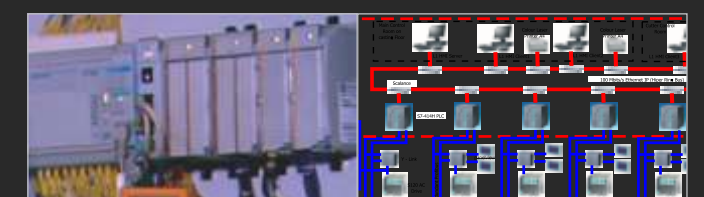
Multi-Point Straightening: Reduced unbending strain for better quality



Automatic Gas Cutting Machines: Efficient cutting and consistent performance



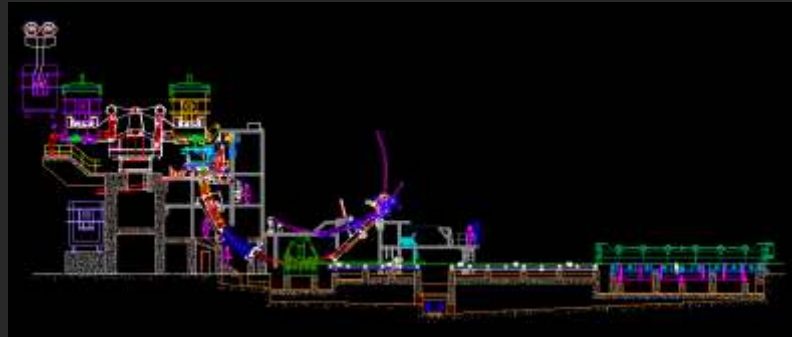
Customized Cut-Product Discharge System: Reliable and efficient product handling systems



Computerized PLC-based Machine Automation System: Reliable machine operation and data tracking with closed loop control system

Continuous casting

Billet Casters



Concast (India) provides ultra-modern Billet Casters that provide the following benefits:

- Designed to be true workhorses in steel mills
- Energy-efficient systems
- Economical cost of production
- Superior quality of cast product

Concast (India) also provides:

- Largest installation of Casters in steel shops with induction furnaces
- SBQ Casters for automotive and forging steel grades
- High Speed Casters for achieving high throughput rates

Bloom Casters



Concast (India) provides state-of-the-art Bloom Casters that provide the following benefits:

- Energy-efficient systems
- Tailor-made to exact customer requirements

- Homogenous and consistent quality of cast products
- Equipped with electromagnetic stirrers, automatic mould level control system, mechanical soft reduction and computer controlled automation systems

Slab Casters



Concast (India) provides Slab Casters that provide the following benefits:

- Excellent slabs to produce strips, plates and flats
- Wide range of section sizes and steel grades

- Low cost of production
- High Caster reliability and steel-in-mould time
- Throughput from 0.15 mtpa and upwards
- Width ranging from 250 mm and upwards

Rounds Casters

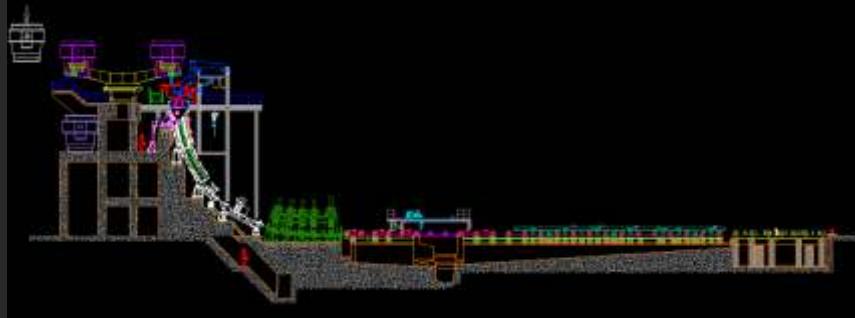


Concast (India) was the first to supply a Rounds Caster in India. They provide the following benefits:

- Rounds from 160 mm to 300 mm diameter, in a wide range of steel grades
- Large radius to minimize strain

- Good shape, surface and internal quality of cast rounds
- Reliable Caster operation with maximum uptime

Beam-Blank Casters



Casters with proven Japanese technology and huge installation base. They provide following benefits:

- Wide range of sections
- Near-Net-Shape Casting

- Energy Savings
- Good shape, surface and internal quality of cast beam blanks
- Reliable Caster operation with maximum uptime



Continuously committed to customer satisfaction

Quality and after-sales support

- Concast (India) believes its responsibility goes beyond the erection and commissioning of a high quality casting machine
- Concast (India) endeavours to provide continuous support and training to customers in the operation and maintenance of the equipment
- Concast (India) advises customers on all aspects relevant to producing quality steel and curtailing metal losses

Always up to the task

Erection and Commissioning

Over the years Concast (India) has erected and commissioned hundreds of continuous casting machines, garnering a sterling reputation for efficient and timely completion of jobs. The Casters provided by Concast (India) are well-known for delivering a superior quality of cast products.

- Erection of Billet, Bloom, Rounds, Slab and Beam-Blank Casting Machines in shortest possible time by mobilizing appropriate supervisors and delivering quality manufactured sub-systems. Concast Engineers work

with the buyer's personnel as one team to expedite erection.

- Commissioning of Billet, Bloom, Rounds, Slab and Beam-Blank Casting Machines from first cast onwards to ensure trouble-free production of high quality cast products. The commissioning experts also provide necessary insights into upstream as well as downstream processes to ensure acceptable quality of finished products.





Always up to the task

Metallurgical Services

Concast (India) has developed an industry-wide reputation for providing timely solutions to metallurgical problems faced in casting various steel grades by steel plants.

Concast (India) can deploy its metallurgical expertise specific to continuous casting at extremely short notice, and provide appropriate solutions to obtain necessary improvement in cast product quality.

Concast (India) possesses a huge data bank of various casting machines and solutions to specific problems, along with the right tools to analyze this data and apply

the solution to the problem at hand.

- Solving problems in continuous casting: Recommend ways to mitigate difficulties in arriving at a sound product quality
- Steel-making adjustments: Recommend adjustments to be carried out at upstream steel-making with respect to temperature and chemistry
- Annual Service Contracts: These include visits to steel plants at regular intervals to pre-empt problems, and help maintain the caster in good health



Always up to the task

Caster Revamps

Concast (India) has a dedicated team of designers, engineers, metallurgists and commissioning assistants wholly responsible for revamps and modernizations.

Concast (India) undertakes surveys of installed casting machines, prepares exhaustive reports on the condition and suitability, and undertakes refurbishing, revamping and modernizing of casting machines, before commissioning them to produce excellent cast products.

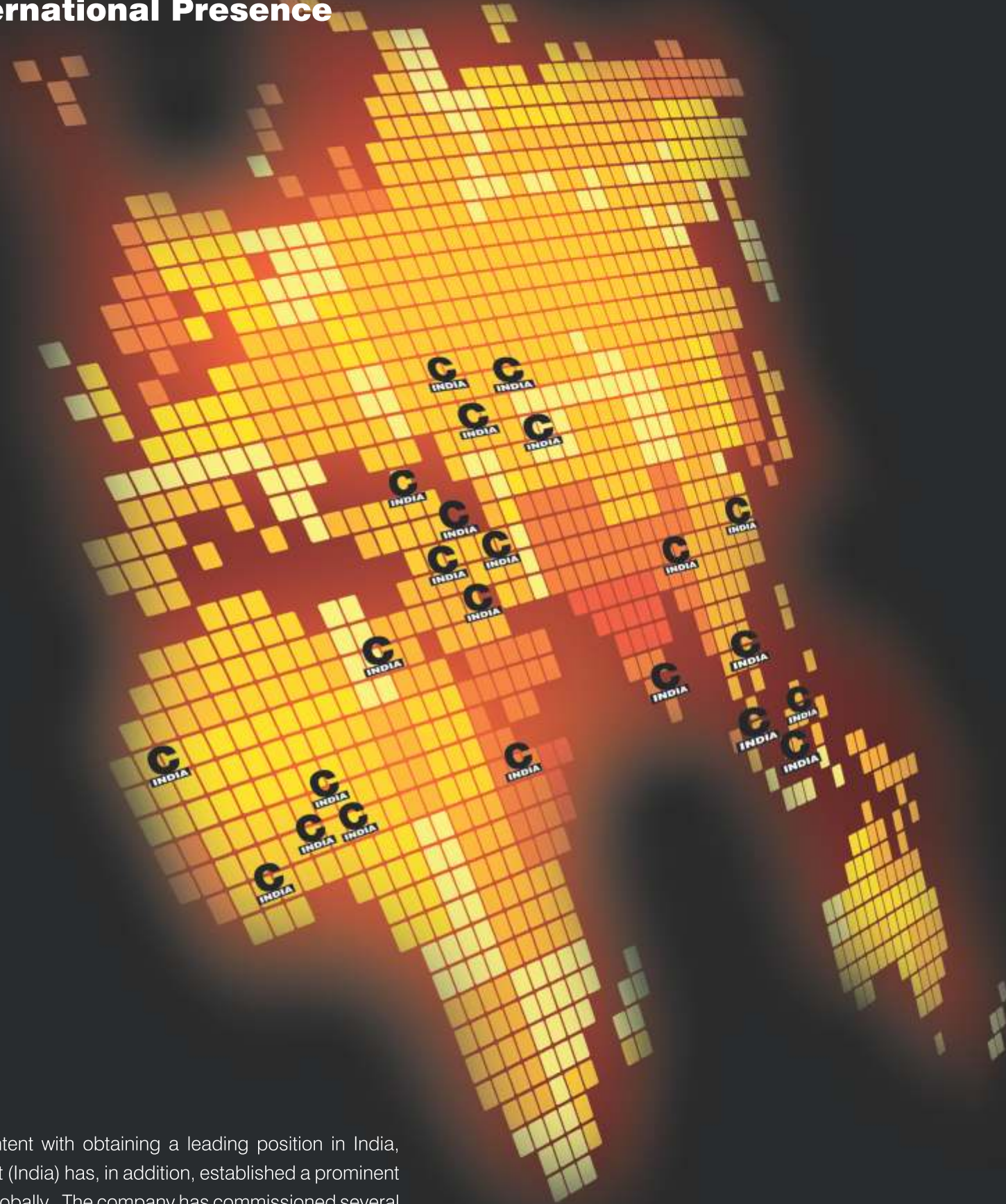
- Assessment and preparation of exhaustive reports: This includes auditing the existing machine and

assessing its suitability, followed by an exhaustive report with clear and precise recommendations

- Refurbishment and modernization: The below-par parts and assemblies are refurbished, and new components and equipments of latest design are added to make a machine as good as new

- Erection and Commissioning Services: The refurbished machine is erected and commissioned within the stipulated deadline to minimize downtime

International Presence



Not content with obtaining a leading position in India, Concast (India) has, in addition, established a prominent name globally. The company has commissioned several Continuous Casting Machines in over 25 countries and has a rapidly growing presence worldwide.

Its reputation for excellence and its strong commitment to service and quality make it the preferred choice for steel companies in several countries in Africa, Central Asia, the Middle East and the Far East.