

Hot rolling

Iron & Steel

The market for hot-rolled products has become ever more demanding as new material properties have stretched rolling facilities to the limit. Low margins continue to drive the replacement of cold rolled products with Hot Band.

The increased demand for steel is being met through traditional means including the completion of new operating facilities and the expansion of existing facilities. However, recent consolidations among the world's largest steel producers have brought new challenges in the areas of:

- Due diligence
- Optimization of multiple facilities
- Ensuring efficient operation of all sites

These challenges come at a time when the competitive price market has streamlined facilities to minimize engineering resources.

Our experience

We are more than a project management company. Globally, we bring full-service business and technical advisory support based on extensive knowledge of the steel industry including:

- World-class expertise in hot rolling-facility design and engineering with process know-how.
- Fundamental understanding of metallurgical processes to improve productivity, ensure quality, and achieve realistic unit costs.
- Extensive experience in the successful implementation of steelmaking and hot-rolling projects.
- Greenfield site construction, including infrastructure development.
- Installation of individual new mills and production lines for stand-alone greenfield sites
- Brownfield expansions, upgrades, and production optimization.
- Professional excellence and commitment to work safety, the integration of sustainable development principles during process design, and the systematic identification and mitigation of risks.



We assess the clients' production line capabilities to meet sales targets.



We offer extensive experience in project implementation, start-up, and operations support.

Contacts

Stuart Hardcastle

Global Technology Leader

Iron & Steel

+1 412 497 2002

stuart.hardcastle@hatch.com

Technologies

We offer specialized process technologies including:

- Coilbox™
- Hatch Mill Stability Technology (HMST)

The Coilbox™ technology has been applied to many mill arrangements with great success, including application on traditional mills for direct casting and rolling to mini-mills and endless rolling mills. The Coilbox™ technology was initially developed and commercialized by Stelco's technology group, Steltech, which is now part of our technologies practice.

The HMST package includes various control system hardware and software integrated by our team into the client's mill environment. The HMST produces a more stable mill operation, world-class gauge tolerances and reduced variations in the finishing mill.

We provide assessments and recommendations on effective technology use for production improvements. We also conduct benchmarking studies to assess the competitiveness of the technology, productivity, quality, and cost.

With a broad range of experience in the steel industry, and in-depth technical and process knowledge, our experts assist with:

- Major capital projects
- Process and equipment selection and integration
- Expert evaluation and introduction to new technologies
- Innovative solutions using multidisciplinary design teams
- Knowledge of equipment suppliers' capabilities and execution practices
- Experience of plant operations and process modeling
- Rapid turnaround of plant audits
- Development and application of integrated maintenance management system
- Training.