

## Consulting Services:

**Maximize productivity, efficiency, profitability and quality.**

Ferrex Engineering is a multidisciplinary professional services company that delivers a full spectrum of technical and strategic services including: Engineering, Automation, Systems and Process Control, Information Technology, Project Management and Commissioning to the manufacturing industry.

## Ferrex Engineering:

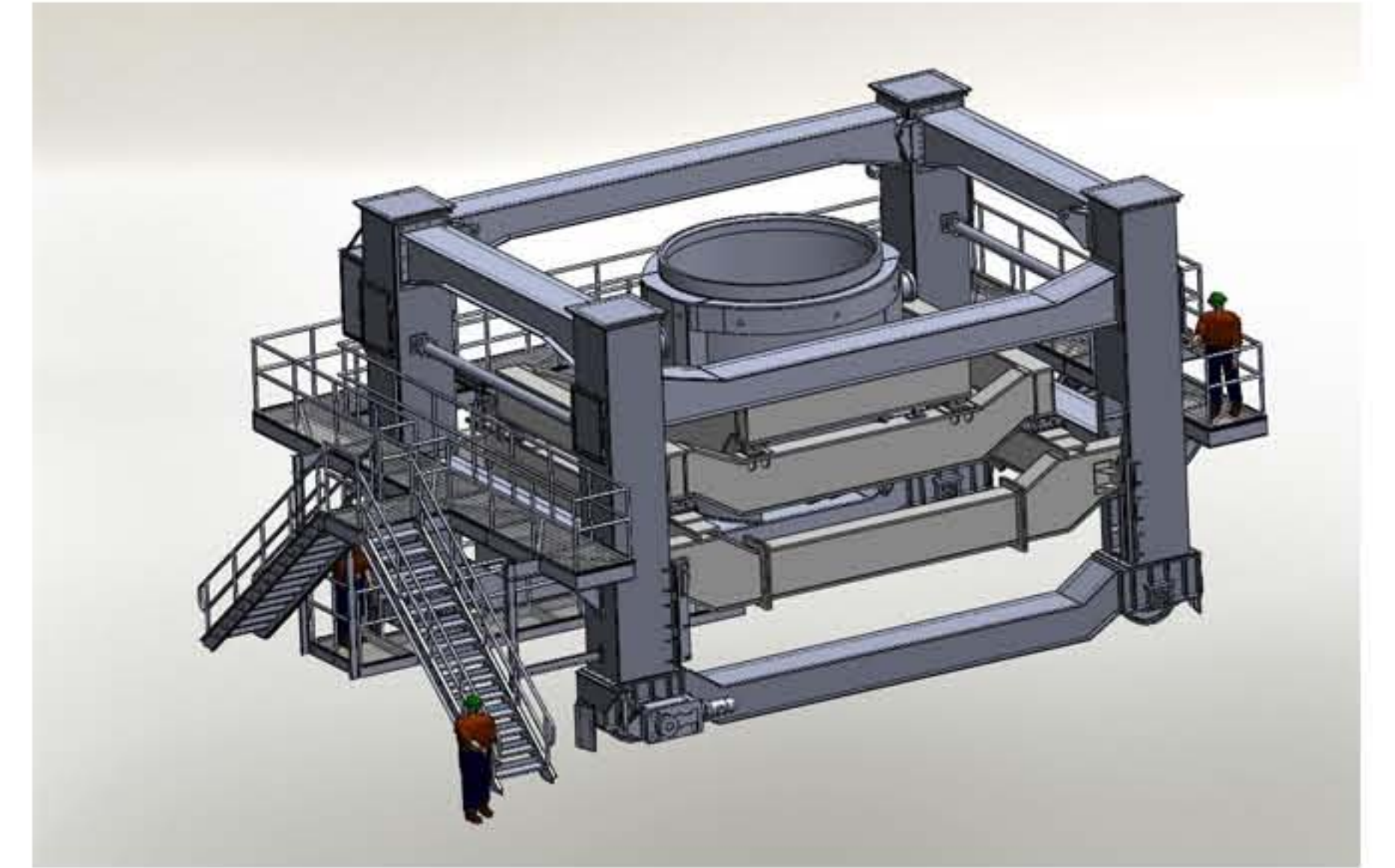
Ferrex has been providing innovative solutions to the steel and metal recycling industry since 1983. We started offering Mechanical and Electrical engineering services and have grown our offering to include multi disciplined Engineering, Automation and IT services. Being a family business we are in for the long term and believe our secret is offering Reliable, Quality and Quick service with always investing in ours and yours future.

## Engineering:

To serve to our clients Ferrex incorporates all major disciplines of engineering, including Civil, Structural, Mechanical, Piping, Electrical Instrumentation and Control as well as areas of specialist expertise such as Process Control and Custom Equipment Design.

Our experts are equipped with the latest innovative tools and technologies including 3D plant design systems, 3D component design software, finite element analysis and simulation software.

Our professionals work closely with our clients to ensure that their knowledge and requirements are built into the project, starting at the earliest stages. With that input, we make the technical decisions and designs. Finally, our engineering teams deliver their work as an integral part of Ferrex's Project LifeCycle Process, working closely with our procurement, construction and commissioning teams to achieve optimal overall project outcome.



## Automation:

The controls automation is the brain of the equipment resulting in a critical part your process. It is important in today's world to have the healthiest and smartest brain to ensure a competitive advantage.

With over 25 year's experience, Ferrex is a trusted and reliable solution provider for providing healthy and smart solutions. Our controls capabilities include:

- Programmable Logic Controller (PLC)
- Distributed Control System (DCS)
- Drives Engineering
- Human Machine Interface (HMI)
- Supervisory Control and Data Acquisition (SCADA)
- Batch processing
- I/O Emulation



What makes us different from everyone else is that we work with our other teams and the client to come up with the smartest solution for your environment.

## Information Technology

Ferrex IT Solutions and Services is an expert and reliable business partner for your IT needs. With our comprehensive software expertise, we focus on manufacturing sector-specific IT solutions and software development, built around the best brand name technology products.

You want to concentrate on your core competences, using IT as an enabler for your processes. We deliver through innovation, client-centric IT solutions, developed for your company, to give you the competitive advantages, you cannot achieve with standard (out of the box) solutions.





### Business Improvements

At Ferrex, our business is helping companies achieve lasting breakthrough results. Our team of senior consultants have years of experience and expertise in solving difficult problems and have an enviable track record of producing sustainable results.

Our clients will attest to our commitment and the benefits of our holistic approach, as they are all enjoying higher output levels, increased efficiencies, and permanent improvements as a result



### Project Management

Work with project professionals who understand your industry

Vast experience and industry-specific knowledge are within your reach.

Our Project Management team use time-tested methods to ensure your project remains on track from initial planning to final acceptance and handover.

We have been perfecting this over 25 years to get the correct recipe.

Your Ferrex team works with you to:

- Organize the project to meet your specific requirements
- Address financial, technical and staffing issues
- Identify best practices for achieving critical project objectives
- Ensure exact compliance with specified cost levels and schedules

Leverage our industrial-grade strengths and skills

Managing any industrial project – whether it involves engineering, automation, controls, or IT – is complex. For success, you need the right people and tools to make it happen. Ferrex delivers those capabilities with standards-based project management tools that include:

- Commercial Project Management
- Bid Management
- Technical Project Management
- Interface Management
- Site Management
- Quality Management
- Change Management



Achieve the highest project quality

We provide the specialized expertise, time and quality management skills and quick decision-making you need to bring projects in on schedule and within budget. We use continuous information exchange at every phase of planning and implementation to assure complete project transparency. And we complement our skills and expertise by collaborating with you to fulfill specific requirements.

Each phase of your project – from planning and engineering to start-up – is served by proven methods designed to maximize project quality. Regular quality audits and continuing education ensure that our high standards are maintained.

### Commissioning

Early in the project cycle, Ferrex coordinates activities with senior management, engineering, procurement, Control, IT and construction to ensure a well planned and a quick start-up.

Ferrex experts are on site to handle all pre-operational testing and commissioning phases. Our purpose is to inspect and test plant components, ensure facilities are in accordance with the project design. Thorough testing of plant systems are conducted to ensure design performance is met.

Our commissioning services support the ramp-up of the plant throughput to the design level.

Principal activities for a successful plant commissioning:

- Prepare commissioning manual
- Complete equipment list
- Complete P&IDs
- Scope P&IDs (identify commissionable systems)
- Develop commissioning schedule
- Agree on construction schedule
- Develop commissioning plan

- Staff for commissioning
- Construction handover, inspections and documentation
- Commissioning tests
- Commissioning handover, inspection and documentation
- Trials and ramp up (commissioning assist operations)

As the final step in project execution, we understand the importance to complete the work quickly and as such we work diligently with detailed planning to provide our clients a rapid ramp up

**Ferrex Engineering LTD.**

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