Iron & Steel Capability
The World’s Best Experience for Iron & Steel
Honeywell’s Experion™ Process Knowledge System (PKS) control systems and applications can help you maximise your Iron or Steel production, reduce operating costs and increase profits while improving safety, reducing risk, and minimising resource requirements. Honeywell adds value through its extensive Iron and Steel experience as well as its process and automation expertise and products. Experion Global Project Management (GPM) services let you capitalise on Honeywell’s proven commitment to and experience in delivering long term automation improvement programs, the company’s global resources and proven technology.

Hundreds of Iron and Steel producers throughout the world are already taking advantage of Honeywell solutions for Advanced Process Control, Training systems & Simulators, Information systems and Integration of all systems. From pellet plant to blast furnace to reheat furnace concentration to smelting and refining, from blast furnaces to continuous casting, Experion solutions address the needs of all stages of production. These solutions help Iron and Steel producers achieve production objectives for consistent quality, higher yields, increased throughput, and reduced operating costs. Honeywell solutions satisfy a broad range of requirements for integrated process and discrete/machine control, including a full range of measurement and control products, advanced applications, collaborative production management systems, and comprehensive services and support.
From coke plant to continuous casting and from plant floor to corporate headquarters, Honeywell has the industry’s most comprehensive offering from field measurement to automation systems to advanced control and production planning and scheduling. We can provide our customers “one-stop shop” for every aspect of their automation and control needs.

**ERP**
- Costing
- Material Management
- Sales and Distribution
- Quality Management
- Plant Maintenance

**Collaborative Production Management**
- Operation Management
- Production Management
- Performance Management
- ERP Integration

**Process Control**

**Field Instruments**
- FOUNDATION™ Fieldbus
- Profinet

**Production Process**
- Scrap Yard
- Material Handling
- Furnace control & optimisation
- Metalurgy
- Casting control
- Slab yard

**Integrated Steel Mill**
- Coke Oven
- Sinter
- Blast Furnace
- Basic Oxygen Furnace
- Electric Arc furnace
- Steel Refining Facility
- Continuous Casting

**Experion Process Knowledge SystemTM (PKS)**, uses state-of-the-art technology to deliver not only improved process efficiency, the hallmark of DCS systems, but also significantly enhanced asset uptime and reliability, people/operator effectiveness and business decision-making. Experion provides the world’s best analogue control combined exemplary drive integration providing unrivalled control capabilities from the blast furnace through to the rolling mills.
Honeywell gives you the ability to quickly bring you assets on control for new project or retrofits, meeting the contractual requirements, and take advantage of new technologies opportunities, helping you to:

- Provide solutions and expertise to better manage
  - Re-heat furnace optimisation
  - Coke oven level automation
  - Ladle tracking
  - Mould breakout detection
  - Furnace scope
  - Width gauge
  - Crop optimisation system
- Meet project requirements by delivering on-time and to expectations, and providing a first-class global project design and installation services.
- Gain reliable control of your production through proven, reliable, and robust automation using Experion controls and field transmitters.
- Increase the effectiveness of your operators and reduce maintenance through use of integrated controls and human-machine interface that improve operator response to abnormal situations and automate start-up operations while minimising engineering and maintenance.
- Improve control through the use of the enhanced controls found in Experion controllers that can reduce valve maintenance as well as improve quality and production.
- Optimise casting and rolling control through seamless drive integration.
- Achieve comprehensive knowledge of your process through calculation and secure historisation of production data and visualisation on desktop’s throughout you operation to improve decision making.
- Integrate production management with plant operating systems and corporate business systems to improve operational and business automation and decision making.
- Ensure complete access security, and monitoring through the integration of Experion systems with the leading technology in building monitoring and security from Honeywell.
The investment in the automation systems must be sustainable for the long term. Honeywell can provide automation functionality under a long-term, value-based contract to operations around the world. This unique approach accelerates and sustains economic benefits to you by eliminating resource, technology and capital constraints associated with traditional relationships.

Honeywell is a world leader in the deployment of 6 sigma. This methodology is used in conjunction with your process engineers to create value from our solution. Honeywell’s 6 sigma expertise is married with extensive iron & steel producing knowledge to identify and determine the benefits appropriate to your particular plant.

At Honeywell, we understand that iron & steel automation means more than just control hardware and software. Our solutions are comprised of world-class domain expertise in iron & steel industry, advanced technology leadership, and best-in-class global services to deliver and sustain value. Our engineering and service group rely on fields proven standards and technologies that have been developed and tested over the years in more than 1000 systems worldwide. This ensures short commissioning times and fast familiarisation of your personnel with our products and systems, leading to safe operation and rapid return on investment.