

*the future is now - be there with us™*

Infra-Red & Radio  
Remote Control  
Crane Systems

**COMMANDER™**

Horizontal & Vertical  
Collision Avoidance  
Crane Systems



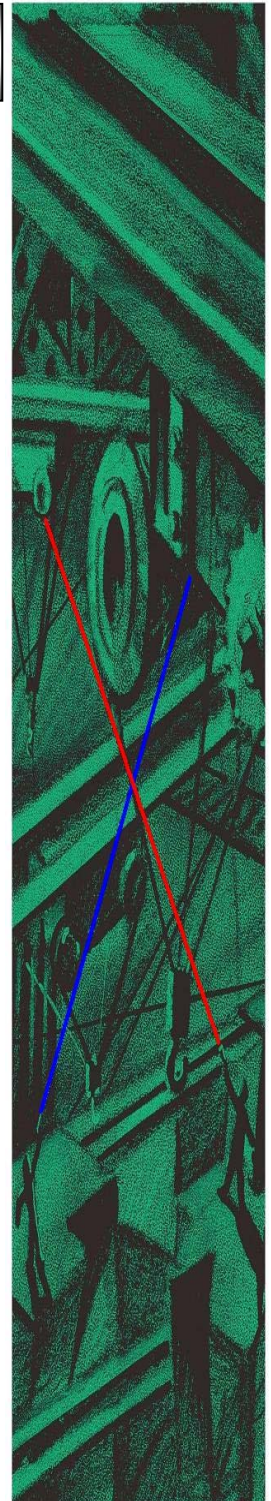
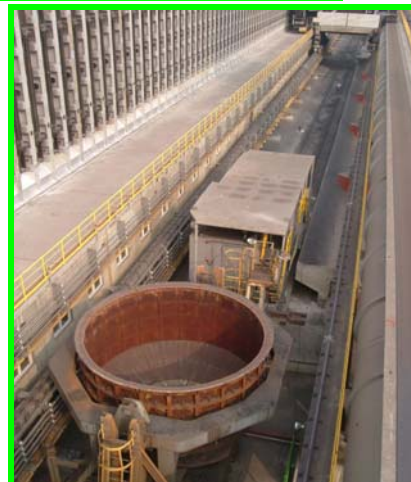
## Case Study



### IRCDS-HSD™ Detection System

- Location** Posco, Pohang, South Korea
- Industry** Steel Manufacture (Coke Production Plant) (Thick Smoke Environment)
- Application** Coke Ovens Quench Car (Ladles) Anti-collision.  
Qty 22, **IRCDS-HSD™** Systems on Qty 8, Coke Ovens (Batterys')
- Project** Very large Quench Cars which are towed by a manually controlled traction vehicle. Due to the very dense smoke associated with the coke production operation particularly when coke is being discharged from the ovens (battery), it was not possible for the machine operators to see other Quench Cars or the end of the rail tracks. An automated failsafe system was required to ensure no collisions between machine and track end stops. The installation of the **IRCDS-HSD™** equipment was carried out during 2006 & 2007. The **IRCDS-HSD™** system was ideally suited for the application and all systems continue to be fully functioning since installation and commissioning thus ensuring no physical damage to machines or loss of production through downtime. The **IRCDS-HSD™** system uses security coded **Infra-Red** signalling to transmit bi-directional communication data between partner systems. 3 detection zones are included to prevent collisions by inhibiting speed thus bringing the machines to a safe and controlled stop.

#### Pictures



Specialist Designers & Manufacturers of Industrial **Infra-Red** & **PLL Synthesiser Radio** Remote Control; **Infra-Red, Ultrasonic & Microwave** Collision Avoidance Systems for Horizontal & Vertical (multi-level) applications; Simplex & Duplex Data Communicators; High Integrity Control Gear for High Integrity Material Handling Applications; Designers & Manufacturers of Eddy Current Brakes & Closed Loop Controllers; CE compliant: **U.K. Designed & Manufactured.**



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