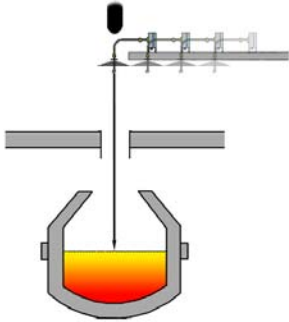


MWS-RF Application Documentation

Examples of how MWS-RF Range Finder is currently being used. Installation may vary according to the customer's requirements

Application: BOF Converter

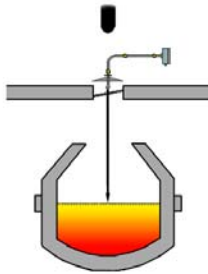
Purpose: Level sensing



Range Finder measures the level of molten iron using the **Sub-Lance hole**. The measured value is then used to fix the lowest possible position of the Main-Lance. The Range Finder moves back to the standby position until the Sub-Lance is raised.

Application: BOF Converter

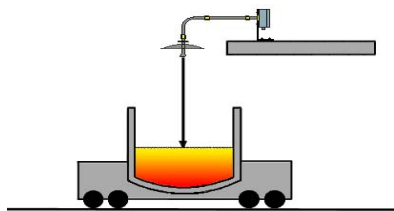
Purpose: Level sensing



Range Finder measures the level of molten iron using the **Main-Lance hole**. The measured value is then used to fix the lowest possible position of the Main-Lance. The antenna is swung to the standby position where it remains until the Main-Lance is raised to its maximum height.

Application: Desulphurizing Equipment

Purpose: Level sensing in POT car

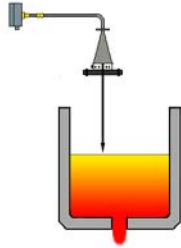


Range Finder measures the level of the molten iron to control the position of the stirrer.

MWS-RF Application Documentation

Application: POT

Purpose: Level sensing in POT



Range Finder continually measures the level of molten iron. The sensor monitors the level to ensure that the POT does not become empty. This application involves temperatures exceeding 1,500°C.

Application: Fusion Furnace

Purpose: Level sensing in a Garbage Furnace



Range Finder continually measures the level to control the supply of garbage into the furnace. The FFT spectrum, displayed in the Range Finder software, indicates the configuration of the garbage level in the furnace

Application: Fusion Furnace

Purpose: Level sensing in Garbage Incinerator

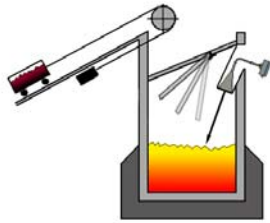


Range Finder continually measures the level to control the supply of garbage into the furnace. This application employs waveguides to remove the sensitive electronics from the extreme temperatures. The FFT spectrum, displayed in the Range Finder software, indicates the configuration of the garbage level in the furnace.

MWS-RF Application Documentation

Application: Electric Furnace

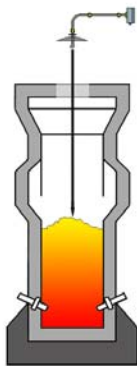
Purpose: Level sensing of scrap metal



When the level of scrap drops below a preset value, Range Finder causes a shutter to be opened to supply more material into the furnace

Application: Coupola

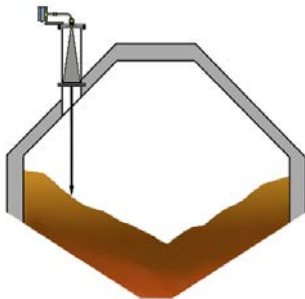
Purpose: Level sensing of scrap metal



Range Finder continually measures the level to control the supply into the furnace, maximizing the operating efficiency.

Application: Blast Furnace

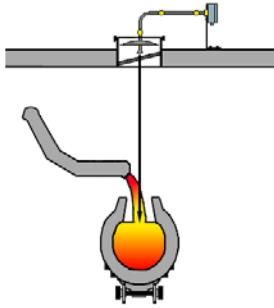
Purpose: Level sensing in Blast Furnace



Range Finder continually measures the level of coke or iron ore to optimize the supply into the Blast Furnace.

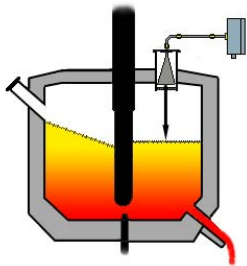
MWS-RF Application Documentation

Application: Torpedo Car
Purpose: Level sensing



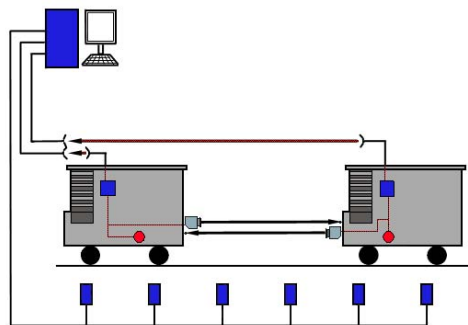
Range Finder measures the level of molten iron; when the car is full, the tilting trough is automatically switched to the next empty car. This fully automated system all but eliminates costly and dangerous accidents caused by overfilling the Torpedo Car.

Application: Electric Ash Melting Furnace (EAF)
Purpose: Level sensing of molten ash



Range Finder detects the slag level to control the supply of ash into the furnace.

Application: Coke Oven
Purpose: Crash avoidance system for Quenching Cars

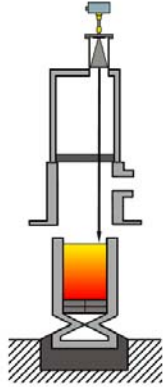


Range Finders are equipped on the quenching cars in order to detect the distance between cars, allowing for a crewless operation. The computer uses the distance measurements to synchronize cars activity. This system has greatly improved efficiencies for the customer.

MWS-RF Application Documentation

Application: High Frequency Induction Furnace

Purpose: To measure the level of waste from an atomic power plant



Range Finder is equipped in a High Frequency Induction Furnace to measure the level of waste from an atomic power plant.

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