

# **86MT EAF and CCM plant**

## **(for manufacturing Steel Slab for Hot Rolled Coil)**

Make: ThyssenKrupp AG(Germany)

Year: 1989

Location: Korea

Status: Stopped at Mill Floor

### **(1)EAF (Electric Arc Furnace)**

- Furnace Capacity : 86 Ton/Heat
  - Transformer Capacity : AC 70MVA (3 Phase)
  - T-T Time : 65 min/Heat
  - O<sub>2</sub> Blowing : 4,000 Nm<sup>3</sup>/Hr
  - Carbon / Lime Injection
- Dog House System for Clean Operation Environment

### **(2)AOD (Argon Oxygen Decarburization)**

- Vessel Capacity : 90 Ton/Heat
- Vessel Volume : 47 m<sup>3</sup>
- T-T Time : 60 min/Heat
- Top Lance Gas Flow-rate : 6,000 Nm<sup>3</sup>/Hr
- Tuyere Gas Flow-rate : 6,000 Nm<sup>3</sup>/Hr

### **(3)VOD (Vacuum Oxygen Decarburization)**

### **(4)CCM(Continuous Casting machine)**

- Type : Vertical Bending
- Metallurgical Length : 20.3m
- Slab Size : 150, 200t x 800/1600w
- Tundish Capacity : 25 ton
- Mold MLAC : Co +60
- Dummy Bar Feeding : Bottom Feeding Type

### **(Main Equipments )**

Scrap Basket  
Scrap Transfer Car  
Dedusting Duct  
AOD exhaust Gas Heat Exchanger  
AOD Collected Dust Hopper  
EAF Dust Collector Facility  
AOD Dust Collector Facility  
EAF Scrap Basket  
Slag Pot  
Ladle Treatment Facility  
AOD Electric Room  
AOD  
AOD Converter  
AOD online Heating Burner  
AOD Tilting Device

Ladle Vertical Heating Burner  
250Ton Teeming Crane  
EAF closed Cooling System  
Electrode assemble Machine  
Electrode change Machine  
Oxygen Lance Machine  
EAF Skimming Machine  
Continuous Casting Turret  
Ladle Treatment Facility  
EAF Roof (Spare)  
Alloy Hopper Facility  
AOD Offline Heating Shop  
EAF Dust Collector and its Duct from EAF  
Ladle Filler Supplying Facility  
Tundish Heating Burner  
CC Turret  
CC Long Nozzle Manipulator  
Ladle Heating Burner Facility  
Manual Cutting Machine  
No1 Grinding Machine  
No2. Grinding Machine  
No3. Grinding Machine  
No4. Grinding Machine  
CC (Continuous Casting)  
Torch Cutting Machine  
Slab Marking Machine  
Water Treatment Facility  
Cooling Tower  
Utility Pump Room  
Chiller Facility  
Air Compressor  
Gas Holder  
Air Dryer  
22kV Distribution Panel  
6.6kV Distribution Panel  
100MVA Main Transformer  
154/22kV Transformer