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## Rolling mill plant

### LONG PRODUCTION ROLLING MILL



### BASIC EQUIPMENTS

#### D700 ROLLING LINE

- *Charge heating: rotary, gas fired furnace*
- *Scale removal: hydraulic descaler located before roughing stand*
- *Rolling: 4 three high mills placed in line set*
- *Cutting: saws and gate shear*
- *Product cooling: cooling bed and retaining boxes*
- *Heat treatment: gas fired, box- type furnaces*

### FINISHING SHOP

- *Strengtheners: Voest- Alpine and Zygmunt straightening machines*
- *Surface descaling: shot blasting machines*
- *Surface inspection: flow detectors ( MPI type), ultrasonic testing, turning*

### FINAL PRODUCT INSPECTION

- *Ultrasonic test*
- *Inspection for material mixing (spectrotest)*
- *Dimension gauging*
- *Tests: hardenability, mechanical properties, non metallic inclusion microstructure macrostructure and the like*

### PRODUCT CONDITIONING PACKING AND SHIPMENT

### FLAT- PRODUCTS ROLLING MILL



### BASIC EQUIPMENTS

#### ROLLING TRIO AND DUO LINE

##### **Charge heating**

- Three high mill (TRIO) pusher type furnace, gas fired, equipped with automatically controlled
- DUO line walking beam furnace, gas fired

##### **rolling:**

- TRIO stand (hydraulic descaler located before and after TRIO stand)
- DUO line – 3 DUO stand

### FINISHING SHOP

##### **Heat treatment**

- Device line for quenching and tempering, solution heat treatment and normalizing of the plates
- Soft annealing furnaces
- Device for plater cutting and straightening

**PACKING AND SHIPMENT****PROFILE CUTTING LINE**

- Plasma profile cutting machine
- Gas- plasma profile cutting machine