
30 TPH HOT STEEL ROLLING MILL SPECIFICATION

1.0) TECHNICAL SPECIFICATION

- 1) Material to be process
 - a) Raw material : Billet 120 x 120 x 3000mm(L)

- 2) Machine capacity
 - a) Linear speed : 250m/min
 - b) Production capacity : 30 Ton/hr.
 - c) Electricity power : 7,500KVA.

- 3) Finished product width
 - a) Round bar : Dia. 10 ~ 25mm.
 - b) Deformed bar : Dia. 10 ~ 25mm.

- 4) Production flow direction : Right to left (view from operator's side) or left to right (upon request by customer).

- 5) Machine are requirement : 40m(W) x 250m(L)

- 6) The production process
Billet --> Furnace --> Roll to Size --> Finished Product (Round bar / Deformed bar)

2.0) LIST OF EQUIPMENT & DESCRIPTION

The equipment of the line for installation will be supply and arranged generally in accordance to the following items:-

| | | |
|----|---------------------|-------|
| 1) | Reheating Furnace | 1 No. |
| 2) | Roughing Mill | 1 No. |
| 3) | Crop Shear | 1 No. |
| 4) | Intermediate Mill | 1 No. |
| 5) | Finishing Mill | 1 No. |
| 6) | Cut To Length Shear | 1 No. |
| 7) | Cooling Bed | 1 No. |
| 8) | Cold Shear | 1 No. |
| 9) | Packing Bed | 1 No. |

3.0) EQUIPMENT SPECIFICATION

1) Reheating Furnace

Type : Pusher type.

Capacity : 30 TPH

2) Rounghing Mill

Type : 3 High Horizontal stand.

No. of passes : 9 passes.

Roll dimension : Dia. 500 x 1200L

No. of gearbox : 1 nos.

No. of motor : 1 nos.

Coupling : 1 nos.

Lubrication tank : 1 nos.

Drive unit : AC 2000Hp

3) Crop Shear

Cutting capacity : Dia. 60mm

Gear box ratio : 1/15

Drive unit : AC 10 Hp

4) Intermediate Mill

Type : Horizontal stand.
No. of passes : 4 passes.
Roll dimension : Dia. 350 x 800L
No. of gearbox : 4 nos.
No. of motor : 4 nos.
Coupling : 4 nos.
Lubrication tank : 4 nos.
Drive unit : AC 800Hp

5) Finishing Mill

Type : Horizontal stand.
No. of passes : 2 passes.
Roll dimension : Dia. 300 x 800L
No. of gearbox : 2 nos.
No. of motor : 2 nos.
Lubrication tank : 2 nos.
Drive unit : AC 700Hp

6) Cut to Length Shear

Cutting capacity : Dia. 25mm
Gear box ratio : 1/20
Drive unit : AC 30 Hp

7) Cooling Bed

Type : Movable rack type.

CB Width : 6,000mm.

CB Length : 50,000mm.

8) Cold Shear

Type : Top pressing type

Cutting capacity : Dia. 25mm

Gearbox ratio : 1/8.5

Drive unit : AC 40Hp

9) Packing Bed

Type : Layer chain transfer type.

Table length : 7,000mm.