

FRM

Flat Rolling Mill



*A complete range of FLAT ROLLING MILLS for cast Bar, Block and Strip
for Precious Metal and Special Metal Alloys*

BÜHLER REDEX
Metal Precision Machines

FRM

A Complete Range of **FLAT ROLLING MILLS** for cast Bar, Block and Strip
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Features

- High Dynamic Servo hydraulic screw down system
- Water cooled Carbide Rolls for long life operation
- Alternative High precision Servo mechanical screw down system
- Strong Universal Rolling Stand for heavy duty roughing or finishing application
- Easy change from 2Hi to 4Hi configuration
- Operator friendly including predictive Maintenance and Rolling Calculation model
- Fully automatic reversing mode for bars and strips
- Continuous Measurement of Thickness
- Smooth operating main drives (twin drive solution or pinion stand with one single drive)

- Rolling Mill Management with pre-calculation and storage of Roll Schedule
- Full range of uncoiler boxes for casted incoming material including pre-levelling machine

Improved Quality and Performance

- Fast opening and precision prepositioning of the roll gap
- High accuracy tension control and control of thickness
- Automatic gauge control (AGC) and Mass Flow Control
- High Accuracy thickness control with tolerances of final product shown in µm

Configuration	FRM 1	FRM 2	FRM 3	FRM 4	FRM 5
2 Hi (Ø x Width) mm	Ø200 x 160	Ø200 x 200	Ø280 x 250	Ø320 x 300	Ø410 x 450
4 Hi (ØBUR/ØWR x Width) mm	Ø160/60 x160	Ø200/60 x 200	Ø230/80 x 250	Ø265/120 x 300	Ø400/160 x 450
Thickness tolerance µm	± 1	± 1	± 2	± 3	± 5

Lower Operation Costs

- Low energy consumption and reduced footprint
- Quick change of roll cassettes
- Full digital control through Bühler Redex's firmware
- Efficient Life cycle service, Roll service, Training, Roll Schedule support, Spare Parts
- Efficient Hot Line with remote control for Teleservice

FRM Options

- A complete range of Uncoiler and Coiler
- Minimal lubrication or Wet operation
- Warm and hot rolling configuration

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