



**Suzhou Newlead Augmented Intelligence Equipment Co.Ltd**  
**NEWLEAD TRADE SUZHOU CO.,LTD**

**FFW : Fine Flat Wire Rolling Mill**

A Complete Range of FINE FLAT WIRE ROLLING MILLS for Non Ferrous, Stainless steel and Precious Metal.

In the field of fine flat wires, the NEWLEAD Group also offers a series of plants that has been tried and tested over many years – the FFW (Fine Flat Wire).

The FFW is a series of rolling mills for non-ferrous metals, stainless steel and precious metals and can thus be used in a wide range of industries.

FFW offers exactly the right concept with the stable and reinforced machine stand and a high-precision roll adjustment to be able to produce the required dimensions and their tolerances.

With a modular concept, 2 or more stands can be arranged. This series is available in both vertical and horizontal versions with continuous thickness and width measurement after each stand.

Especially the low space requirement in the vertical design has helped the FFW to its triumphal march.

This series also comes in different sizes with a wide range of options.

**Drawing and Rolling mills for Brass, stainless steel, carbon steel**



**Usage and characteristics:**

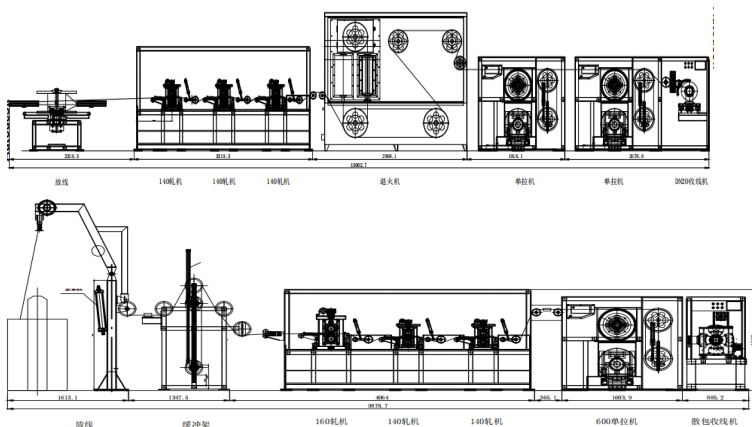
Suitable for producing high-precision alloy flat wire with rounded corners through the "drawing and rolling" process

★ Applicable materials: brass, stainless steel, carbon steel, etc. ★ Incoming wire diameter of 2~8mm, product cross-sectional area  $\leq 30\text{mm}^2$

★ Quick roll change ★ High precision hard alloy roller, roller runout  $< 1\mu\text{m}$

★ Dual servo drive rolling, maximum linear speed 180m/min ★ Electric roll gap adjustment

Item	parameters	parameter
Roller seam adjustment method	electric	electric
Roller material	Hard alloy ultra-fine tungsten steel	Hard alloy ultra-fine tungsten steel
Roller drive	Dual servo drive	Dual servo drive
Note	Centralized lubrication series, cooling system	Centralized lubrication series, cooling system
Roller seam adjustment method	electric	electric





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#### Features

- The RMW - **HC** 5-Stands Rolling Mills are dedicated to the processing of copper round drawn wires into rectangular wires with rolled edges, according to DIN - BS or IEC standards.

#### Flexible and efficient design

- One pay-off spooler, hydraulically operated
- One two-high breakdown rolling mill
- Two two-high finishing rolling mill, with motorized screwdown system and parallelism adjustment
- Two motorized edger, type E150, with fast changing system
- Four tensiometers, located between the stands to make the settings easier
- One filtration system (spraying liquid)
- One continuous automatic control gauge
- One take-up traversing spooler

#### Advanced operator HMI interface

- The equipment control panel is designed to easily move all along the rolling mill
- Provides easy display of production and maintenance data
- Allows to easily create production jobs and to provide full reports
- Monitors a detailed synoptic of the rolling mill to provide a full actual process picture with settings at the operator's fingertips

Configuration		RMW 200-150HC	RMW 422-150HC	RMW 522-150HC
Breakdown Two-high mill	Ø mm	<b>160</b>	<b>220</b>	<b>250</b>
First Edger mill	Ø mm	150	150	150
Second Two-high mill	Ø mm	120	160	160
Second Edger mill	Ø mm	150	150	150
Third Two-high mill	Ø mm	120	160	160
Available rolling power	kW	<b>220</b>	<b>320</b>	<b>400</b>
Max entry wire	Ø mm	10	13	15
Max entry wire / 70% breakdown	Ø mm	8	10	12
Cross section	mm <sup>2</sup>	2 to 60	2 to 100	2 to 125
Yearly capacity reference	Ton	3500	4000	5000



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A Complete Range of **FINE FLAT WIRE ROLLING MILLS**  
for Non Ferrous, Stainless steel and Precious Metal

### Features

- Strong and Stiff Machine Frame high precision screwdown system
- Multiple range of Rolling Cassettes with different rolls diameters for a wide range of application
- User friendly through open design and easy spool loading

### Improved Quality and Performance

- Continuous measurement of width and thickness after each stand
- High accuracy tension control and width control thickness
- High accuracy thickness control with Tolerances of final product shown in µm

### Lower Operation Costs

- Low energy consumption and reduced footprint
- Quick change of roll cassettes
- Full Digital Control through REDEX's Firmware

### FFW Options

- Dry or immersed version
- Available combined Induction Annealer

Configuration		FFW502	FFW1002	FFW302	FFW303
Number of stand		2	2	2	3
Roll diameter - Stand 1	mm	100	100	50	50
Roll diameter - Stand 2	mm	50	100	30	30
Min. Thickness	mm	0,025	0,050	0,010	0,010
Max W/T in one pass	-	25	15	30	60

Technical Data			
Entry copper wire diameter		mm	0,05 ... 0,9
		AWG	44 ... 19
Entry wire dia. SS Steel		mm	0,05 ... 0,6
Production Speed		m/min	100 / 400 / 600
Spooler - Spool dimensions	Min spool flange dia.	mm	60
	Max spool flange dia	mm	250
	Min bore dia.	mm	160
	Max. usefull width	mm	12
Overall dimension	width x deep x height	M	2.6 x 1.4 x 2.5
Weight		kg	2200