

WIRE REDUCTION ROLLING

As a manufacturer of innovative high-tech machines, HMP Rolling designs custom rolling mills for producing precision profiles with a wide range of geometries. State-of-the-art machine technology ensures minimum downtime and maximum output. Based on our standard range, the machines are customized towards customer and material requirements.



WIRE REDUCTION ROLLING

This technology is used to allow a high reduction of the cross-section of wires. During production, the thickness and width of the material is rolled alternately using profiled roll rings. A wide range of geometries / profile shapes can be created, e.g. round, oval, rectangular, octagonal, hexagonal.

CONFIGURATION		WRM 60	WRM 100	WRM 150	WRM 250
Mill type		WRM 60	WRM 100	WRM 150	WRM 250
2Hi Roll Set	Rolling force [kN]	60	100	150	250
	Roll diameter [mm]	80	120	160	220
	Roll ring width [mm]	50	120	140	160

WIRE REDUCTION ROLLING

PROPERTIES AND FEATURES:

- Rigid and heavy-duty roll stand
- Monoblock version of with high precision Servo-Mechanic screw down
- Automatic groove displacement
- Mill drive with Infinitely variable speed range
- Rolls available in forged version or with tungsten carbide ring
- Compact machine design – reduce the footprint in your factory
- Replaceable roll cartridges for quick machine setup
- Infeed and outfeed guides with rolls or slides with integrated wire cooling
- Large reduction ratio between infeed and outfeed
- Full range of pay-off and take up system for rods and coils
- Full range of bending coilers

SOFTWARE AND CONTROL SYSTEMS:

- Torque controlled rolling mills
- Roll gap correction
- Fully digital control system and diagnostics
- Pre-calculation and storage of pass schedules
- Fully automatic machine setup
- Monitoring of torques, temperature and adjustment forces
- Felss Edge Device – Your step into Industry 4.0

MODULAR MACHINE DESIGN:

Easy to maintain:

- Roll change manipulator
- Central lubrication system
- Predictive warning of critical machine status
- Electronic overload protection

Design variants:

- Pay-Off tables
 - Non-driven or driven
 - Double table version
 - Pinch Roll unit
 - Infeed straightening unit
- Manual, pre-centred rod infeed
- Number of rolling mills can be extended infinitely thanks to modular machine stand design
- Take-Up table / bending coiler
 - Driven
 - Double table version

