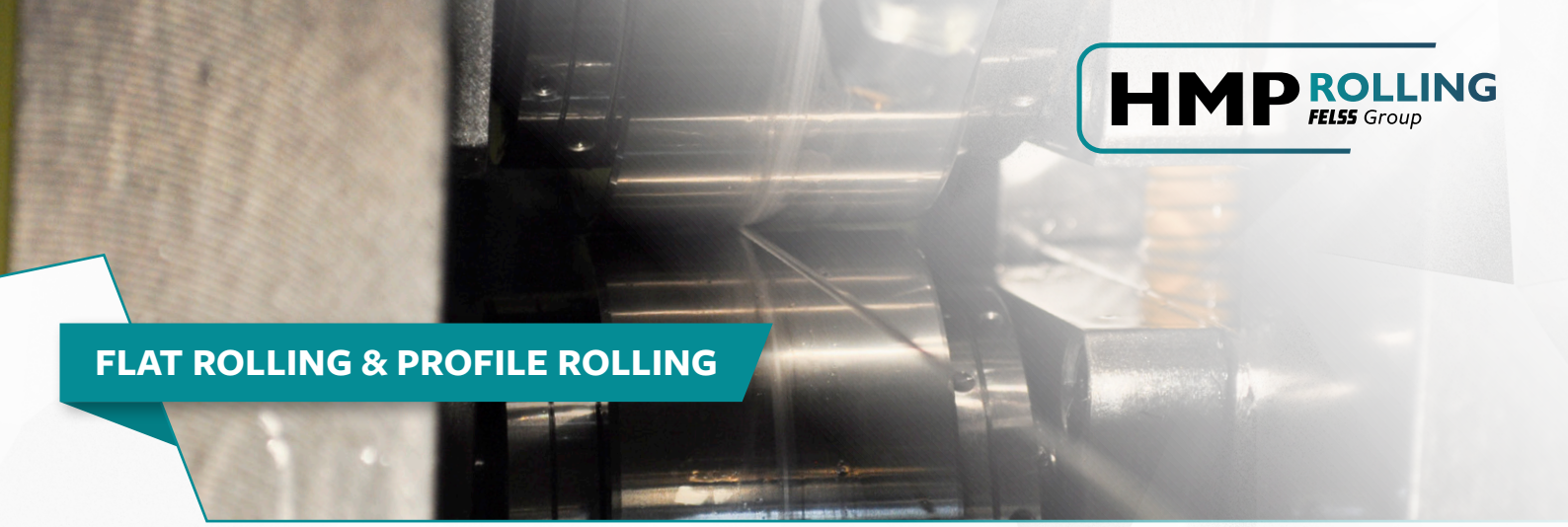
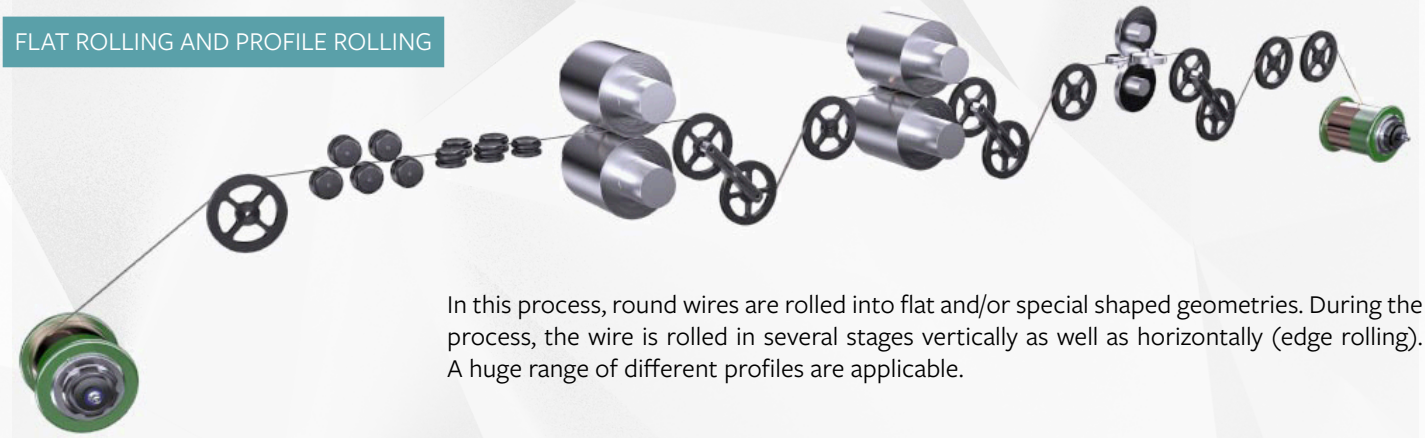


FLAT ROLLING & PROFILE ROLLING

As a manufacturer of innovative high-tech machines, HMP Rolling provides a wide range of high-precision rolling mills for producing rectangular, square and profile 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.

FLAT ROLLING AND PROFILE ROLLING

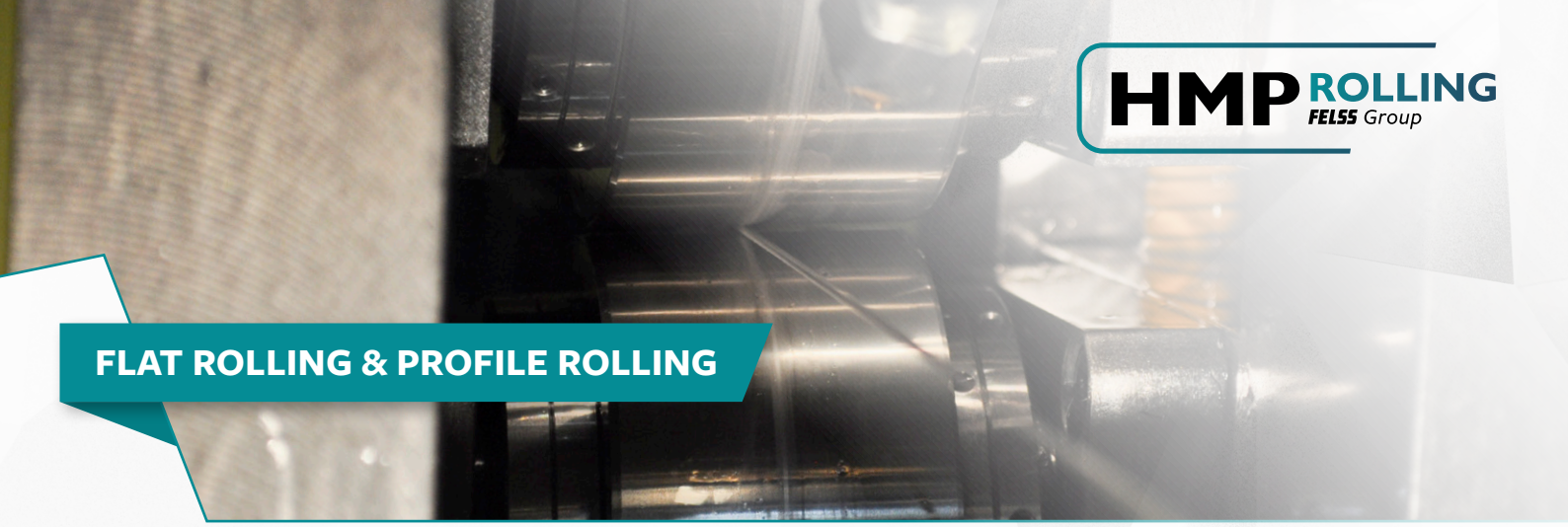


In this process, round wires are rolled into flat and/or special shaped geometries. During the process, the wire is rolled in several stages vertically as well as horizontally (edge rolling). A huge range of different profiles are applicable.

CONFIGURATION:

Mill type		FPW 90	FPW 200	FPW 400	FPW 600	FPW 800	FPW 1000	FPW 1200
2Hi Roll Sets	Rolling force [kN]	90	200	400	600	800	1000	1200
	Roll diameter / 1 [mm]	80	140	180	240	280	340	380
	Roll diameter / 2 [mm]	100	160	200	260	300	360	400
	Roll diameter / 3 [mm]	120	180	220	280	320	380	420
	Roll ring width [mm]	60	80	150	150	150	200	200

Mill type		EM 30	EM 60	EM 100	EM 120
Edge roll	Rolling force [kN]	30	60	100	120
	Roll diameter / 1 [mm]	70	110	150	190
	Roll diameter / 2 [mm]	80	120	160	200
	Roll diameter / 3 [mm]	90	130	170	210
	Roll ring width [mm]	40	80	80	100



HMP ROLLING
FELSS Group

FLAT ROLLING & PROFILE ROLLING

PROPERTIES AND FEATURES:

- Extendable modular machine concept
- High precision Servo-Mechanic screw down
- Rigid and heavy-duty roll stand
- Automatic groove displacement
- Mill drive as Mono and Twin drive with Infinitely variable speed range
- Rolls available in forged steel version, HSS or with tungsten carbide ring
- Machines available with different type of lubrication (flood cooling or minimum quantity lubrication)
- High accuracy thickness and width measurement – contact and laser gauges
- Full range of winding systems
- Wire tension control by means of dancer accumulator, dancer, capstan and caterpillar
- Inline surface finishing and cleaning

SOFTWARE AND CONTROL SYSTEMS:

- Fully digital control system and diagnostics
- Pre-calculation and storage of pass schedules
- Fully automatic machine setup
- Monitoring of torques, Temperature, adjustment forces and wire tensions.
- Felss Edge Device – Your step into Industry 4.0
- Active thickness and width regulation
- Trend and cascade control

MODULAR MACHINE DESIGN:

Easy to maintain:

- Automatic roll changes
- Central lubrication system
- Predictive warning of critical machine status
- Electronic overload protection

Design variants:

- Spindle or flange coiling technology as well as spreadable mandrels for coreless winding
- Number of rolling mills can be extended infinitely thanks to modular machine stand design
- Dancer accumulator and dancer in servo design for highly dynamic applications
- Non-driven or driven edge rolls
- Intelligent wire guidance systems for easy machine setup and process control

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