



MMH 121 / RM 201
Multiwire Drawing Line

MMH 121

Design:

- compact design for space saving use of the production area
- vibration-damping cast iron housing for long service life
- stainless-steel drawing chamber cover and pipes
- safe and reliable separation of drawing emulsion and gear oil via mechanical labyrinth seal (long service intervals)
- user-friendly design

Increase in quality:

- extremely smooth operation and uniform load transmission by helical precision gear
- high surface quality of the wires due to the optimized wire path in the drawing machine and optimized coolant supply to the drawing dies

Increase in productivity:

- reduced downtime when changing the machine setup for different dimensions via multi-motor drive technology (quick drawing die change system)
- NMI (NIEHOFF Machine Interface) color touchscreen for data entry, display of production parameters and maintenance instructions

Energy and cost efficiency:

- uniform electrical properties of the individual wires (individual wire path)
- reduced consumption of electric power per ton of manufactured wire
- cost savings for downstream processing due to the use of uniform wire bundles
- long service intervals and extended drawing tool service life minimize the requirement to stock and use spare parts
- optimal media consumption

Technical data			
type		MMH 121	
max. production speed:	m/s	40	40
	fpm	7874	7874
max. no. of wires per level:		14	16
max. no. of wires per machine:		42	16
max. inlet dia.:	mm	8 x 2.6	16 x 2.05
	AWG	8x10	16x12
for max. inlet tensile strength:	N/mm ²	450	450
finished dia. drawing machine:	mm	0.15 ... 1.40	0.18 ... 0.64
	AWG	35½ ... 15	33 ... 22
possible no. of drafts:		16/19/22/25	22
drawing capstan dia.:	mm	100	100
haul-off capstan dia.:	mm	100	100

RM 201

Design:

- DC multi-wire resistance annealer with single-wire path
- single unit comprising drawing machine and annealer
- ergonomic machine design with openly accessible wire paths

Increase in quality:

- consistently high finished wire quality achieved through single-wire drying
- wire movement for longer life of the contact tubes
- optimum wire drying by patented 2/3-zone-system (with reheating)
- individually driven contact pulleys for high wire surface quality and longer service life of the contact tubes (optional)

Increase in productivity:

- driven haul-off capstan (contact pulley) for constant wire tension in the annealer and reduced wire tension leading up to the downstream spooling system
- easy-to-change contact tubes with long service life

Energy and cost efficiency:

- quick return on investment by a high cost-benefit ratio
- high machine availability
- low energy consumption
- reduced costs of production resources and high product acceptance achieved by perfect quality

Technical data				
type		RM 161	RM 201	RM 301
max. production speed:	m/s fpm	40 7,874	40 7,874	40 7,874
possible no. of wires:		8/16/20	8/16/24/32	8/16/24/28
finished dia. of the line:	mm AWG mm AWG	0.10 ... 0.64/0.50/0.40 38 ... 22/24/26	0.15 ... 1.05/0.72/0.55/0.48 35 ½ ... 18/21/23 ½/24 ½	0.40 ... 1.35/0.35 ... 1.15 26 ... 15 ½/27... 17 0.25 ... 0.90/0.25 ... 0.70 30 ... 19/30... 21
contact pulley dia.:	mm	160	200	300
max. annealing power:	kW	80	180	350
max. annealing current:	A	2,000	5,000	7,000
annealing principle:		switchable between 2/3 zones	switchable between 2/3 zones	not switchable between 2 or 3 zones
separately driven auxiliary pulley:		standard	standard	standard
individual drives:		optional	optional	standard
water-cooled slip rings:		standard	standard	standard