



MMH 50 / RM 121
Multiwire Drawing Line

MMH 50

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 50		MMH 50 reinforced	
max. production speed:	m/s	31.5		31,5	
	fpm	6201		6201	
max. no. of wires per level:		8		8	
max. no. of wires per machine:		16		16	
max. inlet dia.:	mm	1.2	1.0	1.8	1.4
	AWG	16 ½	18	14	16
for max. inlet tensile strength:	N/mm ²	250	450	250	450
finished dia. drawing machine:	mm	0.15 ... 0.05		0.15 ... 0.05 (0.07)	
	AWG	34 ½ ... 44		34 ½ ... 44 (41)	
possible no. of drafts:		31/35		35	
drawing capstan dia.:	mm	50		(4 x 80) + 50	
haul-off capstan dia.:	mm	60		60	

RM 121

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 3-zone-system (with reheating)

Increase in productivity:

- 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 121
max. production speed:	m/s	31.5
	fpm	6201
possible no. of wires:		8/16
finished dia. of the line:	mm	0.05 ... 0.15
	AWG	44 ... 30
contact pulley dia.:	mm	140
max. annealing power:	kW	23
max. annealing current:	A	500
annealing principle:		3-zone
separately driven auxiliary pulley:		N/A
individual drives:		N/A
water-cooled slip rings:		N/A