

MSM 83 Rod Breakdown Machine

Expertise, Customer Driven, Service – in Good Hands with NIEHOFF



MSM 83

Design:

- pressure-lubricated drawing die holders enable highly effective spraying of capstans and drawing dies
- flexible machine drafting
- compact design, placing the capstans on two levels reduces space requirements
- three-phase AC motors water-cooled and maintenance-free
- capstan diameters are adapted to wire diameters
- no sound enclosure cabin required up to 85 dB (A)
- highly reliable separation of drawing emulsion and gear oil via mechanical sealing (long maintenance intervals)

Increase in quality:

- high surface quality of the wires due to the optimized wire path (inclination of the gearing/drawing capstans)
- innovative drawing die holders with high-pressure cooling of the drawing dies
- Wire path without intersection

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:

- long service life of drawing tools (drawing capstans, drawing dies) with minimized-slip operation
- energy savings of up to 20 % by multi-motor drive technology

- individually driven capstans enable minimized slip
- reduced consumption of oil and drawing lubricant
- additional energy saving due to the elimination of gears in the fast section – no gear losses

Optional:

- AC motors, air-cooled

Technical data				
type		MSM 83	MSM 83	
material		Cu	Al	
max. production speed		m/s fpm	38 7,480	40 7,873
production output (7,000 h and 80 % utilization)		t/a	26,000	8,500
no. of wires			1	1
max. inlet dia.		mm AWG	8.0 1	9.5 12.5 1/0 4/0
for max. inlet strength		N/mm ²	450 250	220 120
finished dia.		mm AWG	1.0 ... 4.5 18 ... 5	1.2 ... 5.0 17 ... 4
numbers of drafts			11 / 13 / 15	11 / 13 / 15
wire elongation per draft		%	variable	variable
drive technology / AC motors			individual drives	individual drives



Overall integration for superior performance

The entire line delivers technically innovative solutions for your production tasks:

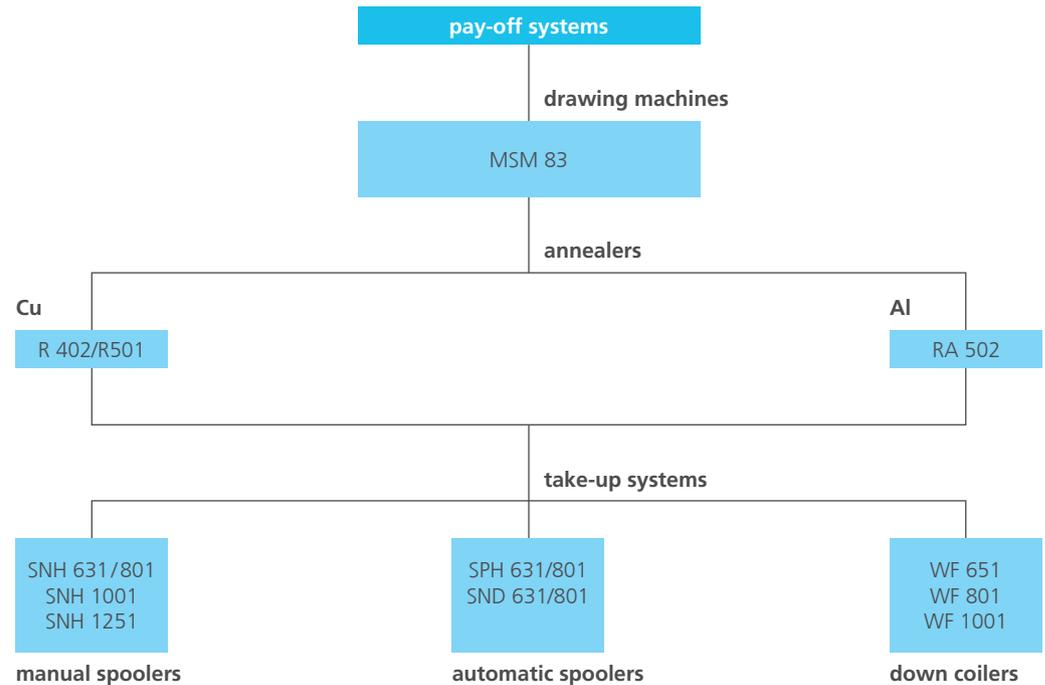
- convincing combinations of individual NIEHOFF components and the excellent quality standards guarantee superb line availability
- due to freely programmable control systems (PLCs) and standardized interfaces, the line can be combined very effectively with many spooling and coiling systems.

The MSM 83 line concept already incorporates the potential for future integration of NIEHOFF machine systems in overall production processes – i.e. the automation of different production areas, including:

- quality assurance
- operational data acquisition
- materials flow control

All possible combinations will deliver the ultimate in terms of quality and performance!

Suitable for combination and integration



We reserve the right to modify technical specifications according to technical improvement and advances. 05.2022