



R 502.2 Continuous Resistance Annealer

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



R 502.2

Design:

- AC-continuous resistance annealer in single or two wire version
- AC 3-zone annealing principle, electrically neutral (no current flow to other machines)
- driven by Individual drive or by separate drives
- single wire path with no crossover
- freely accessible slip rings and carbon brushes
- Contact pulley K3 with inner cooling

Increase in quality:

- digital annealing voltage control for consistent wire annealing quality
- consistent wire annealing from a speed of 0 m/s
- effective single-wire drying
- Longer cooling section improves cooling

Increase in productivity:

- increased production output by means of 530 kW annealing power

- controlled coolant supply via recipe management depending on the wire program by means of frequency-controlled pump and solenoid valves
- contact band quick-change system with central locking

Energy and cost efficiency:

- reduced consumption of energy
- ergonomic and user-friendly machine design, with easy maintenance
- enclosed wire path for reduced consumption of protective gas

Technical data

| type | | single-wire | | | | | | two-wire | | | | | |
|--|-----|--------------------|-----|------|------|-----|-----|--------------------|-----|-----|------|------|-----|
| max. individual wire dia. | mm | 0.8 | 2.5 | 3.5 | 4.0 | 5.0 | 5.8 | 0.8 ... | 1.6 | 1.8 | 2.6 | 2.8 | 3.6 |
| max. production speed | m/s | 40 | 32 | 16.3 | 12.5 | 7.7 | 4.2 | 40 | 40 | 40 | 24.5 | 19.6 | 7.2 |
| finished dia. (for Cu) | mm | 0.8 ... 5.8 | | | | | | 0.8 ... 3.6 | | | | | |
| contact pulley dia. | mm | 500 | | | | | | 500 | | | | | |
| max. annealing power (without transformer) | kW | 320 | | | | | | 530 | | | | | |
| max. annealing current | A | 8,000 | | | | | | 8,000 | | | | | |
| max. annealing voltage | V | 52 | | | | | | 52 | | | | | |
| oil-cooled slip rings | | standard | | | | | | standard | | | | | |
| machine dimensions (W x D x H) (without transformer) | m | 5.25 x 1.58 x 2.35 | | | | | | 5.25 x 1.58 x 2.35 | | | | | |
| weight (whithout transformer) | kg | approx. 8,500 | | | | | | approx. 8,800 | | | | | |

We reserve the right to modify technical specifications according to technical improvement and advances. 04.2024