
# R 502.2
## Continuous Resistance Annealer

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

NIEHOFF
GRUPPE

# 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<br>AWG | 0.8 ... 2.2<br>20 ... 11 ½ | 2.5<br>10 ½ | 3.5<br>7 ½ | 4.0<br>6 ½ | 5.0<br>5 | 0.8 ... 1.6<br>20 ... 14 | 1.8<br>13 | 2.60<br>10 ½ | 2.8<br>9 ½ | 3.6<br>8 |
| max. production speed | m/s<br>fpm | 40<br>7,874 | 31.5<br>6,200 | 16<br>3,150 | 12.5<br>2,460 | 9.4<br>1,850 | 40<br>7,874 | 38<br>7,480 | 24<br>4,724 | 19<br>3,740 | 11<br>2,165 |
| finished dia. (for Cu) | mm<br>AWG | 0.8 ... 5.0<br>20... 5 | | | | | 0.8 ... 3.6<br>20 ... 8 | | | | |
| contact pulley dia. | mm | 500 | | | | | 500 | | | | |
| max. annealing power (without transformer) | kW<br>HP | 320<br>429 | | | | | 530<br>710 | | | | |
| 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 2.30 | | | | | 5.25 x 1.58 x 2.30 | | | | |
| weight (whithout transformer) | kg | approx. 8,500 | | | | | approx. 8,800 | | | | |





**Maschinenfabrik NIEHOFF GmbH & Co. KG**
Walter-Niehoff-Strasse 2 · 91126 Schwabach, Germany · Phone +49 9122 977-0 · Fax +49 9122 977-155 · info@niehoff.de