

RA 502 Continuous Resistance Annealer



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

RA 502

Design:

- DC resistance annealer in single or two-wire version for aluminium and aluminium alloys
- 2-zone annealing system, electrically neutral (no current flow to other machines)
- freely accessible slip rings and carbon brushes
- internally cooled contact pulley K3
- single wire path with no crossover

Increase in quality:

- encapsulated protective gas zone up to the end of the annealing process in order to avoid oxidation of the wire surface and smoke emission
- automatic contact pulley cleaning and oscillating wire movement (K1 and K2)
- effective single-wire drying
- digital annealing voltage control for consistent wire annealing quality

Increase in productivity:

• increased production output by means of 480 kW annealing power

Energy and cost efficiency:

• individual drives for all contact pulleys for long service life of the contact rings and best wire surface quality

type		single-wire	two-wire
material		Al / Al alloy*	AI / AI alloy*
max. single wire dia.	mm AWG	1.2 2.0 3.0 4.0 5.0 16 12 9 ½ 6 4	1.2 2.0 3.00 4.0 16 12 9 ½ 6
at max. production speed	m/s fpm	40.023.513.08.57,8734,6252,5591,673	40.0 19.0 6.5 7,873 3,740 1,279
finished dia. (for Al 99.5)	mm AWG	1.2 5.0 16 4	1.2 4.0 16 6
contact pulley dia.	mm	500	500
max. annealing power (without transformer)	kW HP	300 402	480 643
max. annealing current	A	8,000	9,000
max. annealing voltage	V	83	83
water-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: (without transformer)	kg	approx. 7,800	approx. 8,000

* values for Al-alloy available on request

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

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