



## Winget Syncro

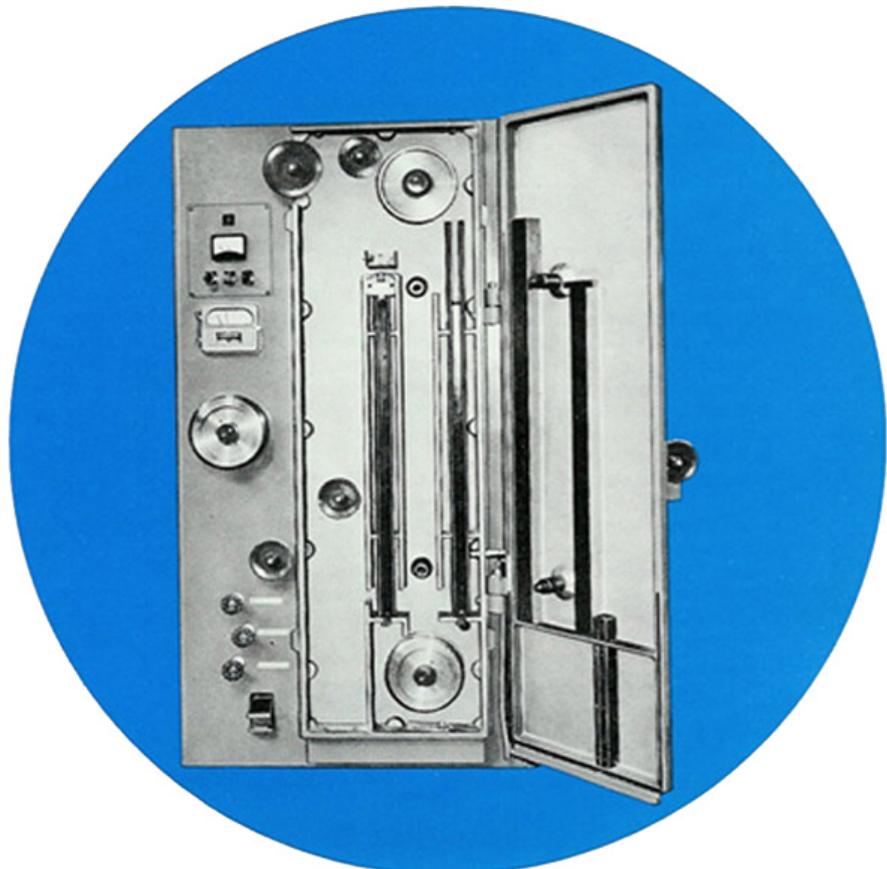
### Type C3 Single Phase Continuous Resistance Annealer

The model C continuous resistance annealer, for electrolytic copper wire, is arranged for co-ordinated operation with the Winget Syncro C type or similar wire drawing machines.

In addition, certain plated copper wires can be processed and it can also be used for 'temper' annealing aluminium.

#### Advantages of Winget Syncro Continuous Resistance Annealing

1. Occupies comparatively small floor space.
2. Eliminates costly batch annealing equipment, with its attendant large space requirements.
3. Eliminates double handling of wire and spools.
4. No lost time: annealed wire is available when drawn, minimising stock holding.
5. Eliminates warped spools and extends spool life.
6. Drawing and annealing of coated wire practicable.
7. Low operating and maintenance cost.
8. Bright clean product.
9. High speed operation: high production efficiency.
10. Uniformly annealed product.
11. Efficient: power consumed is effectively used in the annealing process.
12. All operational functions are readily controlled.
13. Elongation of product to BSS 4106.





## Specification Type C3 Continuous Resistance Annealer

Annealing Wire Range:		
At 6,000 fpm (30.5 mps)	0.0159" to 0.037"	0.4mm to 0.95mm
At 5,000 fpm (25.4 mps)	0.0375" to 0.0411"	0.96mm to 1.044mm
At 3,850 fpm (19.6 mps)	0.0412" to 0.0469"	1.045mm to 1.192mm
At 3,200 fpm (16.3 mps)	0.047" to 0.051"	1.193mm to 1.296mm
Transformer Capacity (single phase)	46 KVA	46 KVA
Power Required	48 KVA	48 KVA
Approx Weight of Annealer - Floor Mounted	2,080 lb	930 kg
Approx Weight of Annealer - Tank Mounted	2,585 lb	1,155 kg
Approx Weight of Transformer	1,850 lb	825 kg
Floor Space Required - Floor Mounted	52" x 18"	1.32m x 0.45m
Floor Space Required - Tank Mounted	60" x 36"	1.52m x 0.91m
Cooling Water per min	20 gal	90 litres
Compressed Air Required	205 cu ft (5.66m <sup>3</sup> ) per hour at 40 psi (2.8 kg/cm <sup>2</sup> ) minimum	
Steam Required	Approx 7 lb (3 kg) per hour at atmospheric pressure	

### Features

**Drive** These annealers are self contained units, driven from the wire drawing machine by belt and pulley.

**Replaceable Tyres** This feature has the advantage of easily and inexpensively retaining the contact sheaves at their true diameter, thus maintaining their correct peripheral speed.

**Closed Circuit Cooling** Embodies a reservoir, circulating pump and a thermostatically controlled heat exchanger.

The closed circuit permits the use of an additive to the coolant, eliminating the possibility of water marked wire and aiding wire pay-off from the spool.

**Hard Wire Collectors** When spooling in conjunction with a Continuous Resistance Annealer the initial length of wire spooled would normally be hard. This is due to the fact that the annealer

can only be put into operation when the equipment has accelerated to full speed. The hard wire is obviously an inconvenience in subsequent operations and we recommend the use of the Winget Syncro Hard Wire Collector Device to overcome this problem. It permits the hard wire to be spooled on a Collector Ring adjacent to the spool until such time as the annealer is operating. The wire is then automatically transferred to the spool where it collects in the normal manner.

**Pre-Extruder** This annealer can be manufactured to embody 'automatic voltage control' and 're-heat' facilities enabling the annealer to be used in tandem with a wire drawing machine and extruder. In this application it can be supplied with a separate synchronised drive.

### Disclaimer

Whilst we have endeavoured to ensure that the information contained herein is accurate, Winget Syncro and Beaumont Machinery do not accept responsibility for any errors or omissions. This specification is subject to amendment.