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.
7. Low operating and maintenance cost.
8. Bright clean product.
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:

<table>
<thead>
<tr>
<th>Speed</th>
<th>Wire Range</th>
<th>Transformer Capacity (single phase)</th>
<th>Power Required</th>
<th>Approx Weight of Annealer - Floor Mounted</th>
<th>Approx Weight of Annealer - Tank Mounted</th>
<th>Approx Weight of Transformer</th>
<th>Floor Space Required - Floor Mounted</th>
<th>Floor Space Required - Tank Mounted</th>
<th>Cooling Water per min</th>
<th>Compressed Air Required</th>
<th>Steam Required</th>
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</thead>
<tbody>
<tr>
<td>6,000 fpm (30.5 mps)</td>
<td>0.0159&quot; to 0.037&quot;</td>
<td>46 KVA</td>
<td>48 KVA</td>
<td>2,080 lb</td>
<td>2,585 lb</td>
<td>1,850 lb</td>
<td>52&quot; x 18&quot;</td>
<td>60&quot; x 36&quot;</td>
<td>20 gal</td>
<td>205 cu ft (5.66m³) per hour at 40 psi (2.8 kg/cm²) minimum</td>
<td>Approx 7 lb (3 kg) per hour at atmospheric pressure</td>
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<td>5,000 fpm (25.4 mps)</td>
<td>0.0375&quot; to 0.0411&quot;</td>
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<td>3,850 fpm (19.6 mps)</td>
<td>0.0412&quot; to 0.0469&quot;</td>
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<tr>
<td>3,200 fpm (16.3 mps)</td>
<td>0.047&quot; to 0.051&quot;</td>
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#### 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.