Electromagnetic Yokes

Gammatec’s electromagnetic AC yokes are low cost, portable instruments which provide fast and accurate defect and crack detection in ferrous metals. The electromagnetic yokes are rugged and induce a powerful AC magnetic field. The adjustable poles and single handed operation makes our yokes ideal for inspecting components of different geometry – welds, castings and onsite inspection / repairs, especially where there is limited access.

The yokes feature a dual coil which provides maximum lifting power without uncomfortable heating. The chemical and impact resistant body ensures ruggedness and has been designed with operator comfort in mind, making it both easy to hold and operate. The new high performance MY-II yoke is one of the smallest, lightest and most durable hand-held yokes on the market.

The instrument features AC operation or DC operation when used in conjunction with an AC/DC converter. AC operation is sensitive for the detection of surface breaking defects such as linear cracks, stress corrosion, porosity, laminations and cold laps. DC operation accurately detects sub surface flaws such as porosity, internal forging bursts, stringers and hot tears.

The instruments comply with all relevant international standards.
## Technical Specifications

<table>
<thead>
<tr>
<th></th>
<th>MK I</th>
<th>MK II</th>
<th>MY II</th>
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</thead>
<tbody>
<tr>
<td>Weight</td>
<td>3.7kg</td>
<td>3.9kg</td>
<td>2.4kg</td>
</tr>
<tr>
<td>Power supply</td>
<td>110V/220V AC 60/50Hz</td>
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<tr>
<td>Distance between poles</td>
<td>170mm (Fixed)</td>
<td>0mm - 300mm (adjustable)</td>
<td>25mm - 185mm (adjustable)</td>
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<tr>
<td>Legs</td>
<td>Fixed</td>
<td>Standard with articulating legs</td>
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<tr>
<td>Pole cross section</td>
<td>27mm x 29mm</td>
<td>27mm x 20mm</td>
<td>27 x 29mm</td>
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<tr>
<td>Lifting power</td>
<td>4.5kg (AC)</td>
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<tr>
<td>Current in air</td>
<td>7 Amps</td>
<td>3 Amps</td>
<td>2.5 Amps</td>
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## Features

- Powerful AC magnetic field
- Lightweight
- Rugged & reliable
- Dual length articulating legs
- Ergonomic comfort-grip handle
- Water-resistant and replaceable micro switch

## Optional Accessories

- DC/AC inverter
- AC/DC converter
- Robust carrying case
- Porta Pack (DC supply)
- Test weights (4.5kg & 18kg)
- UV lights & torches
- M.P.I. consumables
- Burmah castrol strips and other field indicators
- Centrifuge tube and stand
- Gauss meters