3-C's

Coated Conductor Cylinders

– the emerging name in superconducting technology – is pleased to offer contract materials characterisation and thin film services at our new Malvern Hills Science Park laboratory.

Services and Facilities:

Thin Film Deposition and Processing

- Development of film deposition processes
- Development of processing technologies, including lithography and ion beam etching
- Device development and testing

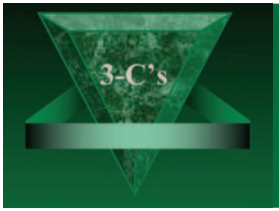
Materials Characterisation / Metrology and Failure Analysis

- Optical and Scanning Electron Microscopy
- Elemental microprobe analysis including EDX, WDX and EBSD
- Analytical mass spectrometry

Please contact
Dr Phil Hirst
on 01684 585350
or email us at
services@3-Cs.co.uk

www.3-Cs.co.uk

Coated Conductor Cylinders Ltd.
Malvern Hills Science Park
Geraldine Road
Malvern
Worcestershire
WR14 3SZ



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3-Cs is developing revolutionary concepts for the fabrication of superconducting machines and systems. In addition, we offer products and services for materials characterization and the evaluation of superconductivity in HTS tapes.

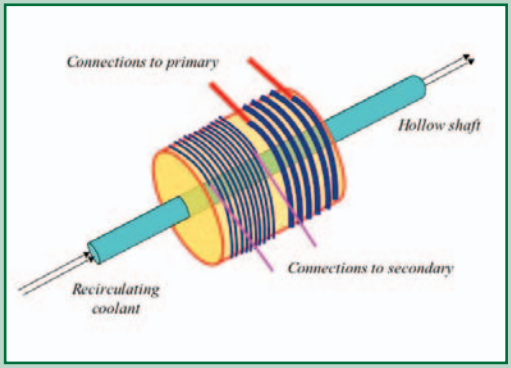
Inspector Hall equipment showing the controller, magnetic sensor unit and sample holder.

Inspector Hall

Is the optimisation of your HTS process parameters being slowed down by delays in measuring electrical properties?

Do you want to reduce the reliance on four-terminal transport current measurements and using costly and complex electrical and magnetic property measuring instruments?

Inspector Hall provides a fast, simple and inexpensive way to establish basic superconducting properties (J_c and T_c) leaving you free to concentrate on optimising material composition, morphology and processing conditions. It is supplied with an operator's manual and has one year's warranty.



Proposed single layer test structure for a step-up transformer. Similar structures could be used to demonstrate FCL devices (resistive and inductive), SMES modules and a linear motor module.

The 3-Cs concept eliminates the need for long lengths of conductor and utilises film deposition and lithographic techniques widely used in the semiconductor industry, but in three dimensions. The superconducting layers are deposited directly onto rotating cylindrical formers.

Please contact Dr Eamonn Maher at:

Coated Conductor Cylinders Ltd
Malvern Hills Science Park
Telephone: +44 (0) 1491 642924
Email: enquiries@3-Cs.co.uk
Website: www.3-Cs.co.uk