

VISIT TO LINTOTT ENGINEERING, HORSHAMon 22-23.10.1970Discussion on fabrication of multipoles

with : Messrs. Barr, Works manager
Wheatly, Engineering manager
Kilner, Production engineer
Long, Design engineer

1. Drawings

CERN received the multipole drawings from Lintott on 19.10.70. A rough check did not show any faults.

CERN asked for some small modifications of the frame, as shown on new drawing No. SI 3.44.1012.0G.

2. Fabrication of frames

Lintott intends to use a master plate for the machining of the inner holes (positioning holes for multipole). The target holder will then be machined with reference to these holes. The positioning of plates for the pick-up electrodes (Pos. 13 and 14) will be done with reference to the inner holes. The cutting of slots in Pos. 13 shall be done after the plate is positioned and pinned. The tolerance for the inner diameter of the target holder (press fit) as given in drawing SI 3.44.1012.0G shall be respected.

3. Fabrication of coils

The coils will be wound flat and then pressed to their proper shape.

Four sets of positioning jigs and coil moulds are foreseen.

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4. Delivery

Unfortunately Lintott could not promise a faster delivery than specified in the contract. Depending on copper delivery a small improvement may be possible.

The hollow copper has been ordered from Yorkshire Imperial (B.I.C.C.) and is expected to be delivered by end of January 1971. The flat copper has been ordered from Liucos, the delivery date is 15 December 1970,

A small modification of the original delivery scheme was agreed upon, putting the single multipole elements at the end of the delivery.

The new scheme is as follows :

- First multipole unit 15.3.1971
- 7 multipole units 31.5.1971
- 8 multipole units 20.7.1971
- 4 multipole elements 1.7.1971
- 13 multipole elements until 15.8.1971

An updated version of the attached diagrams will be sent by Lintott once a month to CERN, starting on 15 November 1970.

M. Giesch

Distribution :

A. Arn
A. Ašner
G. Brianti
C. Rufer

Lintott Engineering Limited, Horsham (2)