

Track Analysis work at the Rutherford Laboratory

Equipment manufactured to Existing Designs

1. National Scanning Tables - 6 off

Motor driven film transport to 3 channels of 35 mm. or 50 mm. or 70 mm. unperforated film.

Approximate cost £1,700.

All installed and 4 commissioned.

2. National Measuring Machine - 1 off

Motor driven film transport to 3 channels of 35 mm. or 50 mm. or 70 mm. unperforated film.

Approximate total cost £24,000.

Measuring accuracy 1-2 micron.

In course of installation. Commissioning to be completed by January 1963.

3. University College London (Dr Duff) Measuring Machine - 1 off

Hand operated film transport to 3 channels of 35 mm. or 50 mm. or 70 mm. film.

Approximate total cost £6,000.

Measuring accuracy 4 micron

At present operating at University College London and later to be transferred to Rutherford Laboratory.

Scanning - Measuring Staff using above machines

3 full time and 6 part time female scanners covering 12 hour operation.

Equipment under development

1. HFD for ON-LINE use with ORION - 1 off

Indexed film transport system to a single channel of 35 mm. or 50 mm. film.

Measuring accuracy 3 micron

In course of design and construction. Completion by September 1963.

Approximate total cost £30,000.

2. Rough Digitiser for attachment to National Scanning Tables

Prototype now undergoing tests.

Accuracy on table ± 0.5 mm.

Print out on punched tape

Typewriter editing

Approximate cost \$500 less typewriter.

First scanning table to be commissioned for rough digitizing by December 1962.

Staff engaged on above Development work:

Under David Lord (1 SO, 2 ABO, and 2 SA)

Research on use of CRT scan

Experiments with the Ferranti tube have been carried out under John Burron in collaboration with RRE Malvern and are now continuing at the Rutherford Laboratory.

Single Channel Projector

This is being made by Ken McKee for quality checking of pictures during an experimental run.

H. SHORDELL

3rd October 1962.