3D volume imaging at Southampton

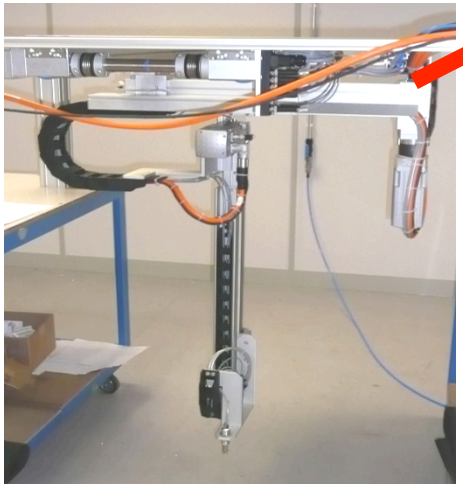
Facilities (Winter '11)

- Custom designed, dual beam-line CT lab:

(1) Custom 225kV Nikon/Metris HMX ST

- Three configurations:
  - (i) Transmission (~1µm spot limit, low flux)
  - (ii) Standard reflection (~3µm spot, 'normal' flux)
  - (iii) Rotating target (~10µm spot limit, x3-5 flux)
- 2 x 2k flat panel detector
- Samples to ~300mm/50kg
- Robotic sample exchange (~150mm height limit)

Exceptional flexibility and throughput capabilities



3D volume imaging at Southampton

Facilities (Winter ’11)

(2) 225/450kV hutch : Nikon/Metris Custom Design

- 20-225kV and 100-450kV sources
- Resolutions: ~3µm low kV, 50µm at 450kV
- Panel and line detectors
- Panel shift system
- 1 x 1 x 1.5m imaging volume, 100kg rating
- Temperature controlled
- Large user labyrinth

Exceptional sample size, complexity and* in situ *potential