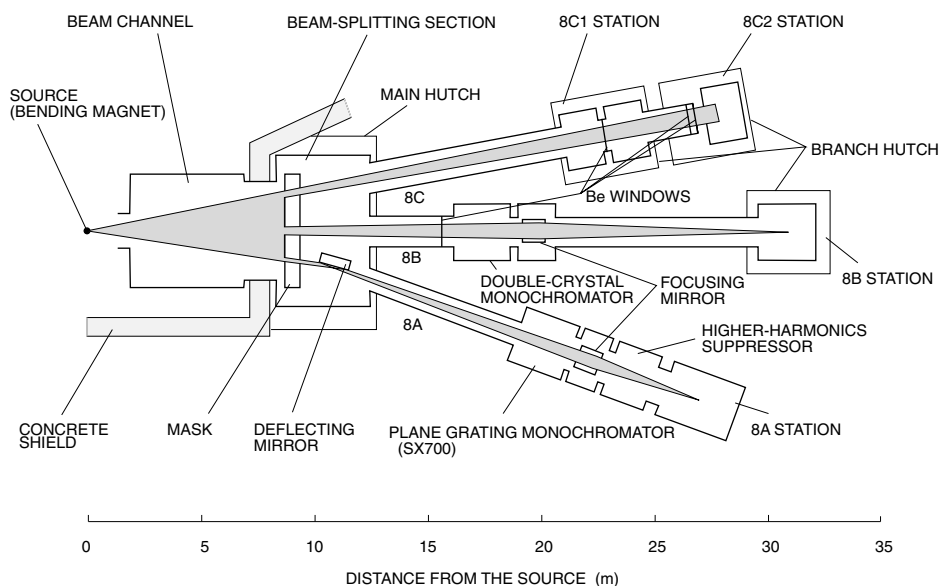


BL-8C X-Ray Stations (Hitachi)

Two X-ray stations, 8C1 (lithography) and 8C2 (tomography and microscopy), are located in tandem at 23 and 28 m from the bending magnet light source. Each station is shielded by a branch hutch. Station 8C1 is installed by an oscillating mirror to sweep a wide area for lithography. Station 8C2 is dedicated to experiments using a direct white beam or monochromatized X-rays in the energy range between 5 and 40 keV using three types of channel cut monochromators of Si(111), Si(220) and Si(400).



SCHEMATIC VIEW OF THE BEAMLINE

Area of Research	Remarks
8C1: X-Ray Lithography 8C2: X-Ray Tomography and X-Ray Microscopy	BL-8C was constructed by Hitachi and PF. The beamtime is equally shared by Hitachi and PF. Users can use the beamtime for PF with a permission of Hitachi.
Light Source	Reference
Bending magnet	1. Y. Hirai et al., Nucl. Instrum. Meth. Phys. Res. A327 (1993) 256.
Optics	Contact Persons
8C1: Oscillating mirror, Be window 8C2: Double crystal monochromator using Si(111), (220), (400), Be window	Kazuhiko MASE (Photon Factory) Phone: +81-298-79-6107 / Fax: +81-298-64-2801 E-mail: mase@post.kek.jp Kiyoshi OGATA (Hitachi) Phone: +81-45-860-1078 / Fax: +81-45-860-1622 E-mail: ogata@perl.hitachi.co.jp Tatsumi HIRANO (Hitachi) Phone: +81-294-52-5111 (Ex. 3382) Fax: +81-294-52-7622 E-mail: hirano@hrl.hitachi.co.jp
Photons at Sample	
8C1: Beam Size : 30 mm (H) × 30 mm (V) 8C2: Energy Range : 5000-40000 eV Energy Resolution : $E/\Delta E = 5000$ Photon Flux : 6×10^8 photons/s/mm ² at 10 keV Beam Size : 5 mm (H) × 50 mm (V), (microbeam: 0.005 mm (H) × 0.004 mm (V))	
Facilities in Experimental Station	

- Experimental stage

(Jan. 2001)