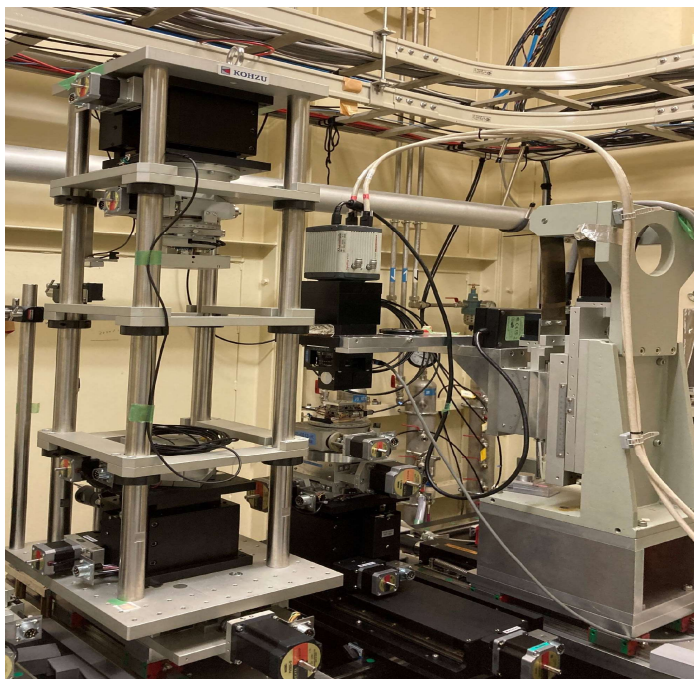




# X-ray CT unit with Tensile, Compression and Twist <SPU-12>

This CT unit is developed for x-ray CT measurement with tensile, compression and twist on various samples. It has upper and lower rotation stages against a sample, which move independently and are aligned with the same rotation axis each other. The upper and lower rotation stages are moved in vertical direction by Z stages, which induce tensile, compression and twist on the sample. A load cell (2kN) and a 12-pole slip ring are equipped with the upper rotation stage. A tilt stage is installed at the bottom for adjusting the relative angle to the detector.



By courtesy of K.Uesugi (SPring-8 Japan)

## Specifications

Model	SPU-12
Sample area	100 x 100 x 184 (W x L x H : mm)
Vertical travel range	± 15 mm (Z1 & Z2)
Vertical resolution	0.1 μm/step (halfstep)
Eccentricity	< 3 μm
Axis deviation between the upper and lower rotation axes	< 20 μm
Rotation resolution	0.002 deg/step (halfstep)
Tilt travel range	± 10 deg
Self weight	76 kg
Dimension	360x 300 x 963 (W x L x H : mm)

## Features

- ◆ Eccentricity: 3μm
- ◆ Axis deviation between the upper and lower rotation axes: 20 μm
- ◆ The upper and lower rotation stages are capable to move independently
- ◆ 2kN load cell and 12-pole slip ring installed