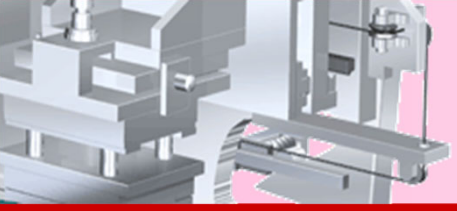

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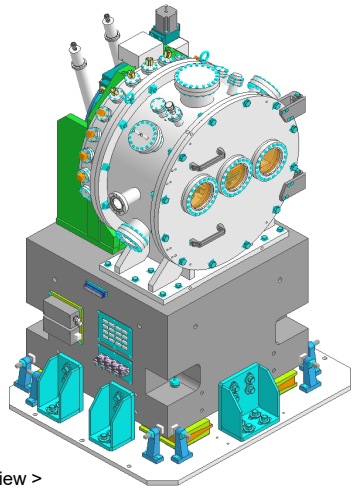
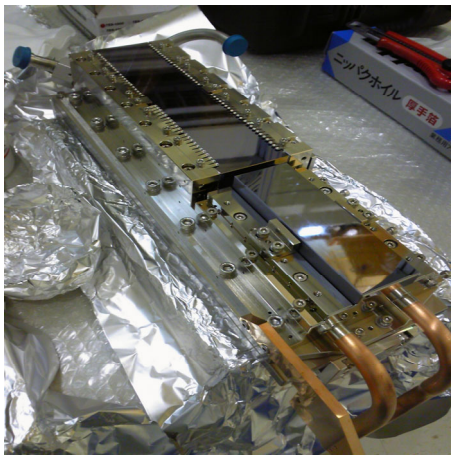
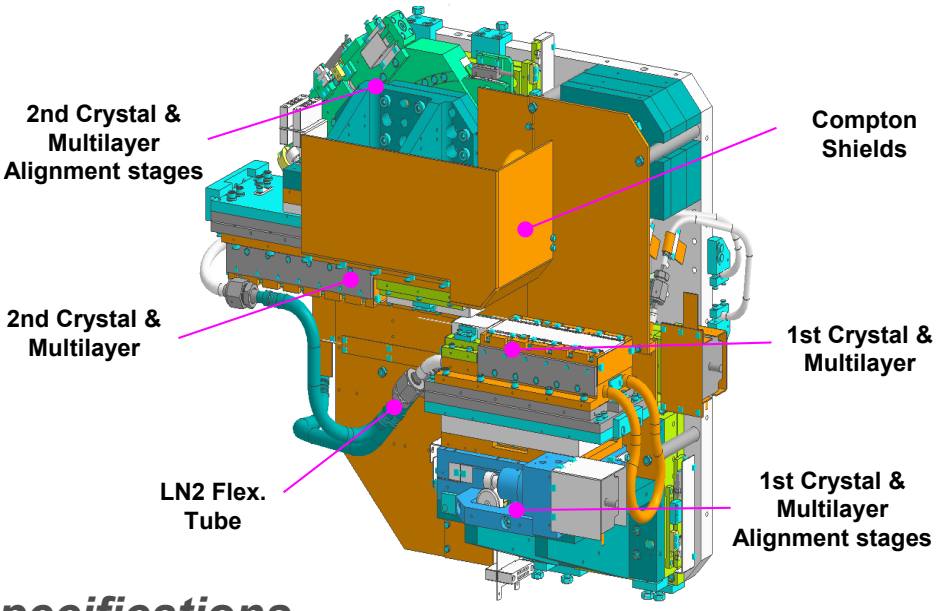
Calculated Type Double Crystal and Multilayer Monochromator <TWF-2>



<General View >



< Crystal holder with Si and multilayer >



Specifications

Model	TWF-2
Main θ Height	1350 mm
Beam Offset	15 mm upward for both Si and Multilayer
Bragg Angle Range	Si: 4 – 31 deg, Multilayer: 0.9 – 2.4 deg
Main θ Rotation Center	Center of the 1st crystal and multilayer surface
Crystal Parallelism	10 arcsec (for full stroke) 2 arcsec (at any 3 degree)
Vacuum Pressure	4.00 x 10E-5 Pa
Crystal Size : Si(111)	50 x 38 x 30, 120 x 38 x 30 (L x W x T : mm)
Multilayer Size : Mo/B4C	170 x 50 x 30, 210 x 50 x 30 (L x W x T : mm)
Dimension	1030 x 1080 x 1825 (L x W x H : mm)

Features

◆Calculated type DCMM with crystal & multilayer.

◆Pairs of crystal and multilayer are placed in **tandem** to X-ray beam.

◆Crystal or multilayer have same beam offset, 15mm upward.

◆Long 2nd crystal & multilayer are mounted instead of using the translation stage to beam direction.

◆Consists of :
1. Crystal cooling system
2. 1st. & 2nd. crystal alignment stages
3. Main axis goniometer
4. Direct beam stopper
5. Supporting structure
6. Vacuum chamber
7. Controllers for motors

◆LN2 both crystal & multilayer cooling

◆Granite support table for better beam stability

◆The first crystal alignment stages
Z1 : -3 ～ +10 mm
χ1 : ± 1 degree

◆The second crystal alignment stages
Z2 : +10 ～ -2.5 mm
θ2 : ±0.5 degree (Coarse)
: 0 ～ 23 arcsec
(Fine motion by PZT)

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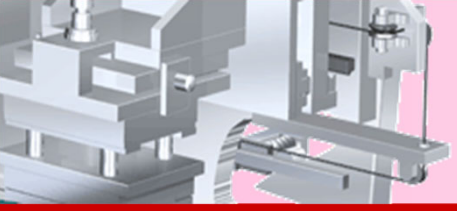
Date of issue: 2020/March/30



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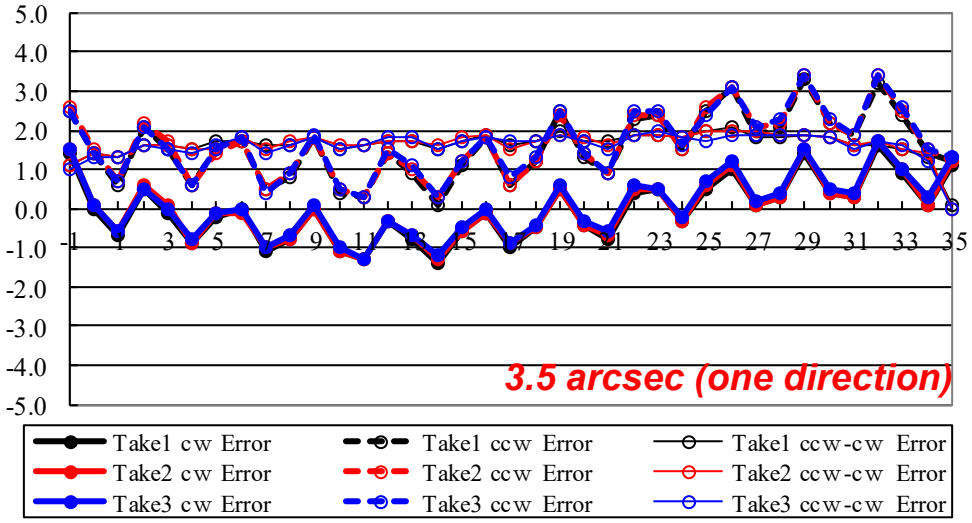
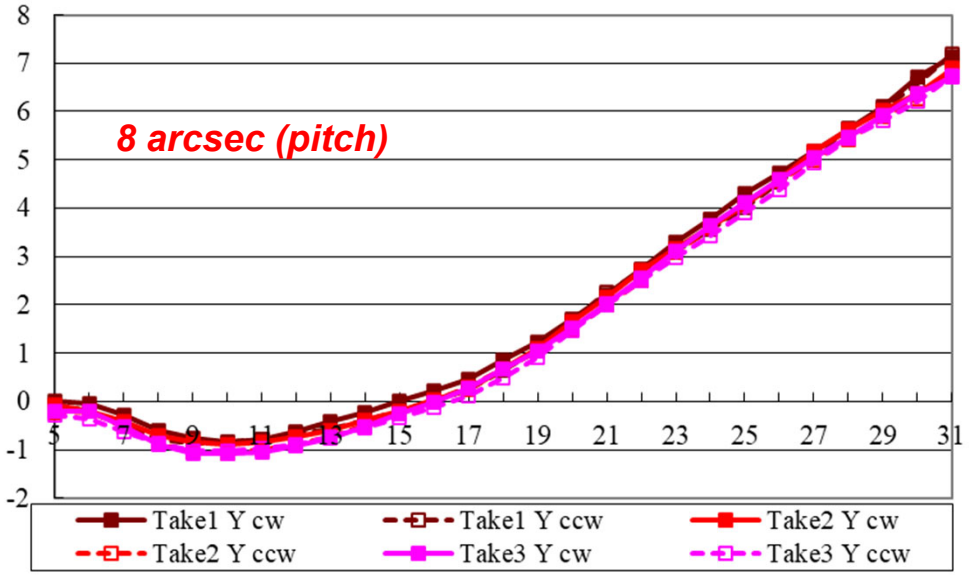
Calculated type DCMM <TWF-2>

ALL MEASUREMENT is NOT with FEEDBACK

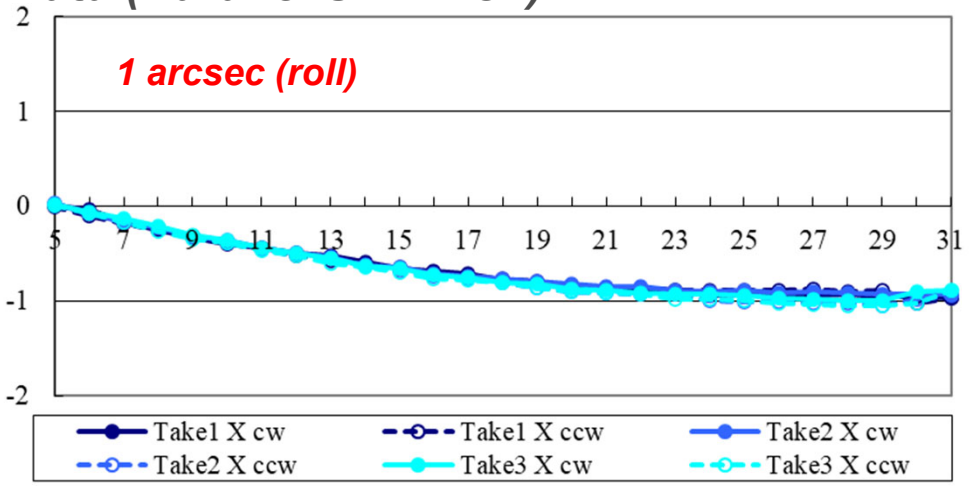
Data (Accuracy for main θ) <TWF-2>



Data (Parallelism : Pitch) <TWF-2>



Data (Parallelism : Roll) <TWF-2>



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