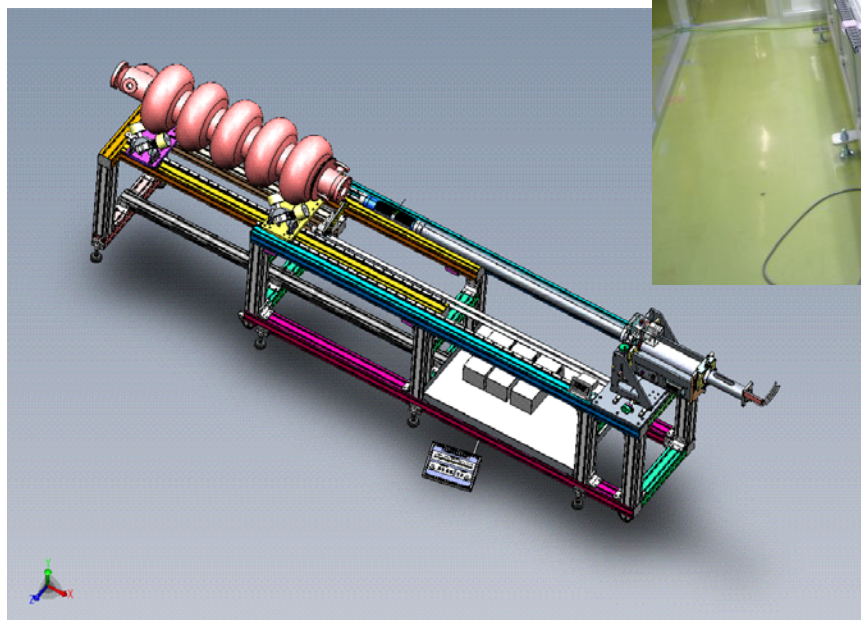


CavCam3

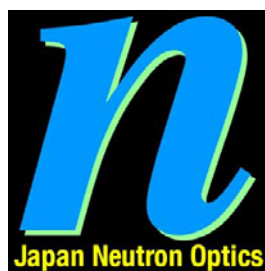
Camera to observe the appearance
of wall surface in the cavity



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Details of CavCam3 Module Package

1) CavCam3-Cylinder "Upper Module of CavCam3"

Weight < 50 kg

(1) Camera

9M Pixel color CMOS Camera

Better than 10 microns/pixel (5 – 10 microns/pixel)

Focus adjustable by movement of camera position

USB interface to PC with English viewer software, driver software and manual

(2) Mirror

Adjustable tilt angle of the mirror by pulse motor

(3) Illumination

Ten white-LEDs at both sides of camera window

Semi-coaxial illumination by LED through the mirror

The illumination housing slides with the mirror tilting angle synchronously.

(4) Illumination control box

Illumination on/off for 21 LEDs

Illumination intensity for LED are adjustable

(5) Camera cylinder holder

Cylinder positions are adjustable in horizontal and vertical direction with position indicators.

The cylinder tilt angle and yaw angle are also adjustable.

- The cylinder itself is rotatable by pulse motor from 0 to 360 degree and its angle is displayed to LED indicator and also readable from RS232C.

- The cylinder rotation axis is adjustable by two fine pitch screws to make camera axis in the rotation center.

A built-in damper against the cylinder vibration

(6) Cylinder alignment to cavity

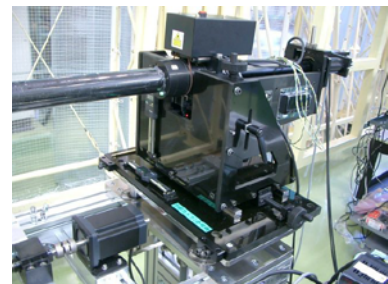
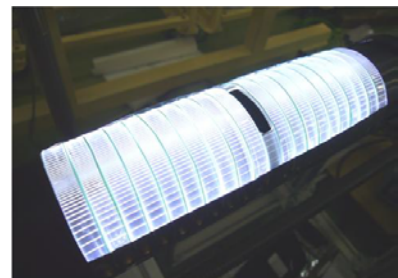
Camera cylinder has rotatable red laser indicator which will guide you the cylinder direction to avoid touch to cavity iris.

(7) motor controller

2 ch pulse motor controller for focus adjustment and mirror angle adjustment.

Another 2 ch pulse motor controller (only 1-ch is used) for cylinder rotation.

These two controllers are linked together so that one handy control terminal can control all three channel.



2) CavCam3-Table "Lower module of CavCam3"

(1) Table body (Sizes and weight are not fixed yet)

Width: 600 mm

Height: 1200 mm

Length: 3340 mm (table at operation), 3340 + 571 mm (including cylinder tail)
2480 mm (retractable for transportation: table length)

Stroke: 1700 mm

Weight: < 300 kg

Cavity rotates by pulse motor.

(2) Rotary encoder for cavity rotation angle measurement

(3) Motor controller

2-ch pulse motor controller, handy terminal

(4) The camera cylinder holder sits on the table.

