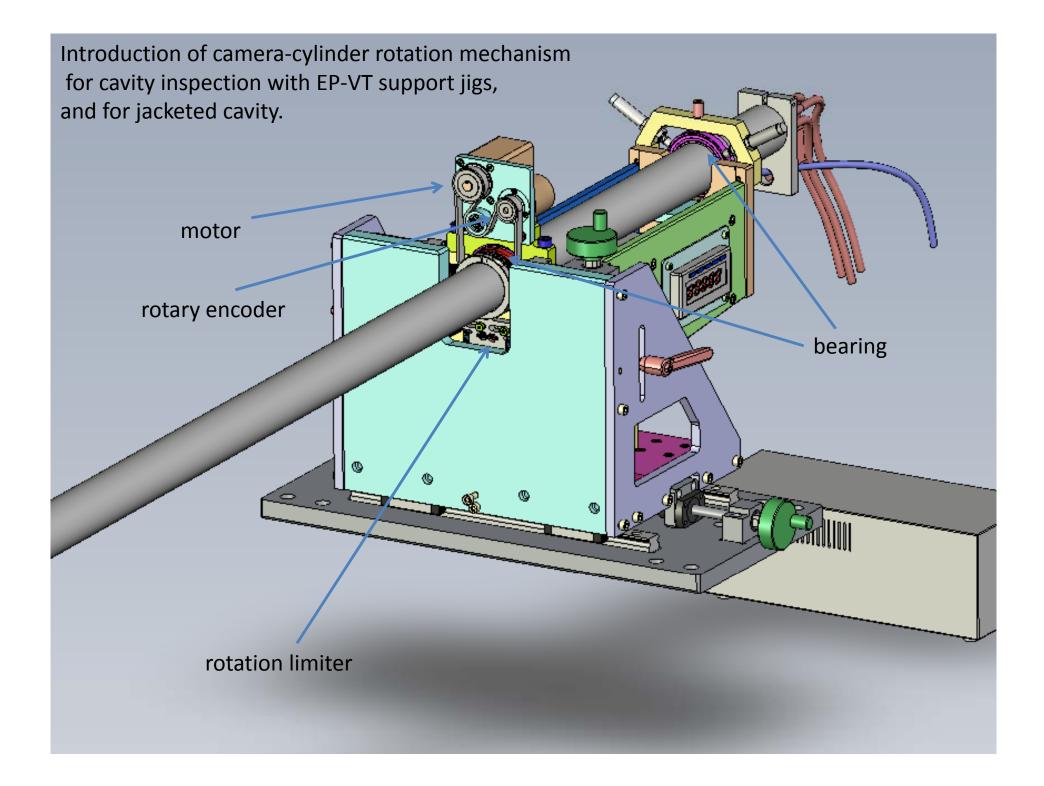
Kyoto camera upgrade

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Upgrade under fabrication

(1)CCD camera upgrade from 5μm CCD pixel to 2.2μm CCD pixel camera.

(2) Lens upgrade

more magnification with more larger aperture.

(3) illumination upgrade

EL panel has limited life with more high voltage (for more brightness).

-> LED + light guide with scattered surface (twice more light).

~7 μ m/pixel \rightarrow targeting 3.5 μ m/pixel

Image capture automation

(1)control of cavity position being done by VB application.

 (2) Image capture and automated file-save already done by VB application.
(speed is enough fast, but must wait for vibration damping) (automated focus is the next concern)

(3) defect pattern matching

the software already fabricated in 2007 was tested

using recent high quality pictures.

-> no good results, so far.

(match to every bright traces, not suspected defects only)

Use for cavity fabrication

(1)EBW evaluation at dumbbell stage (for MHI-07, 08, 09) small pits were found at around equator region before EBW. (maybe they appeared after pressing) scratches were found on EBW seam in dumbbell caused by EBW clamp jig screws dismounting. (We fed back to fabrication line people.)

(2)