fortix

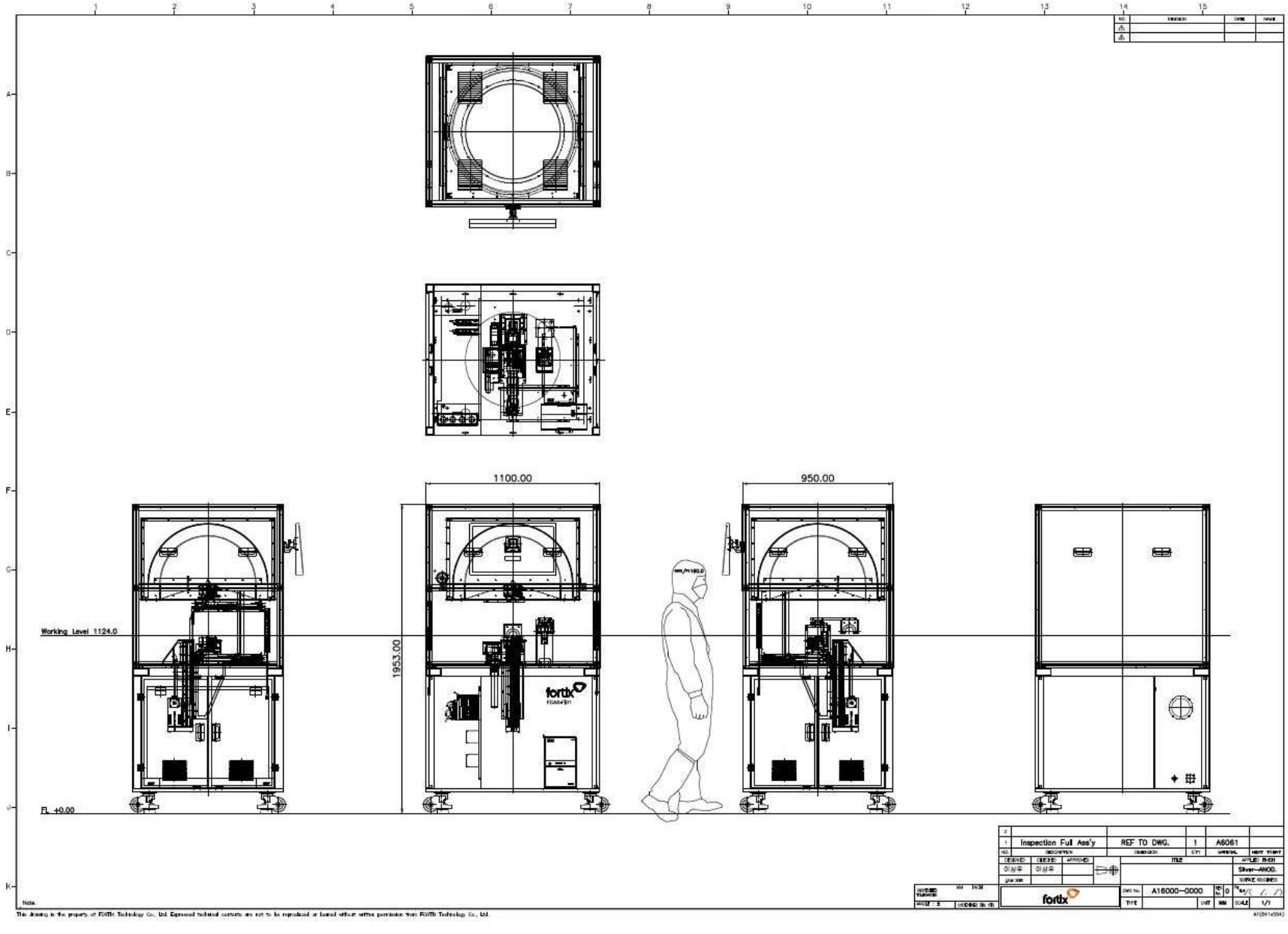
Camera Module Inspection System
Semi Auto

fortix

CONTENTS

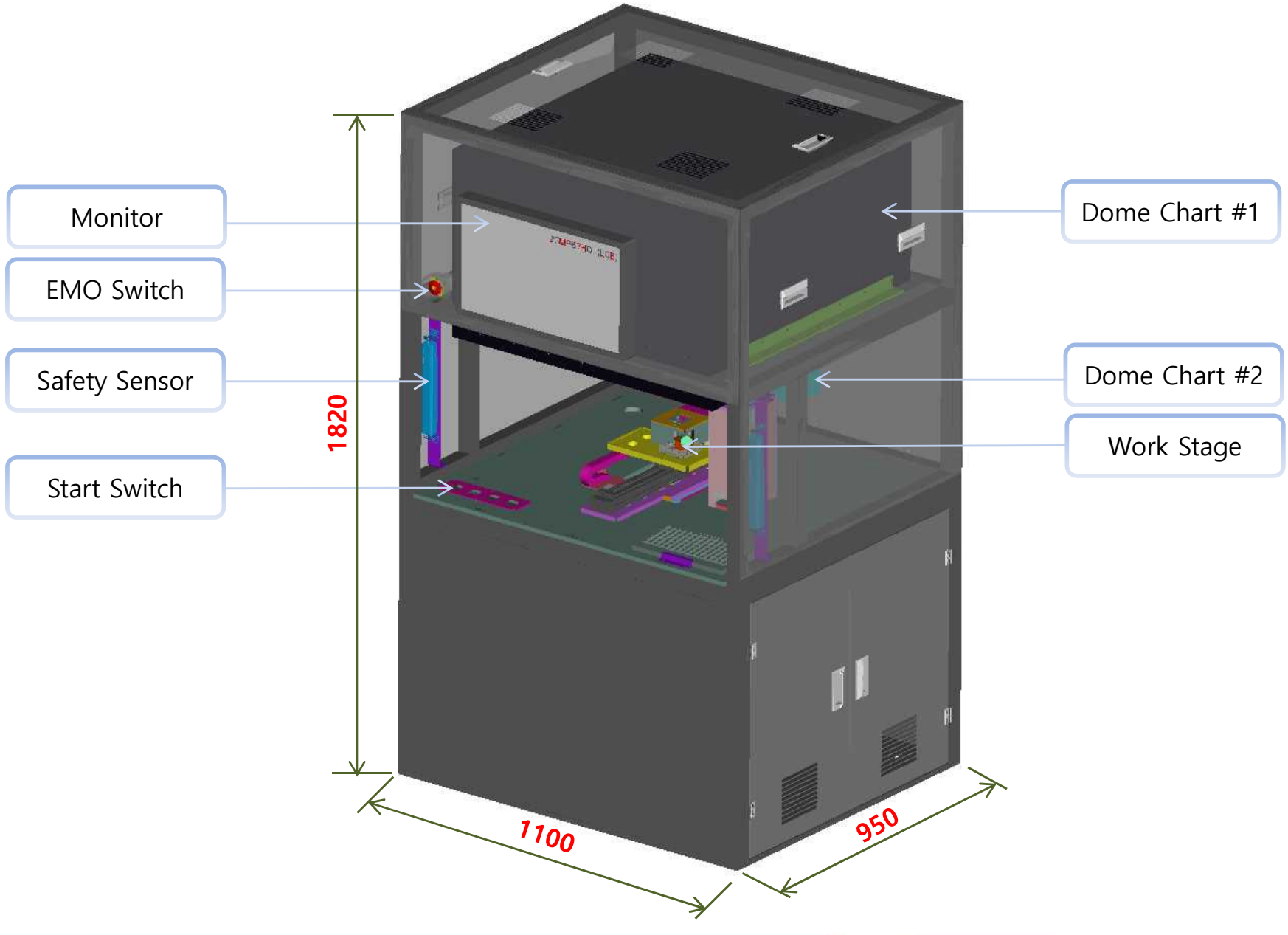
1. Camera Module Inspectin System

1.1 Lay-Out Dwg.



1. Camera Module Inspection System

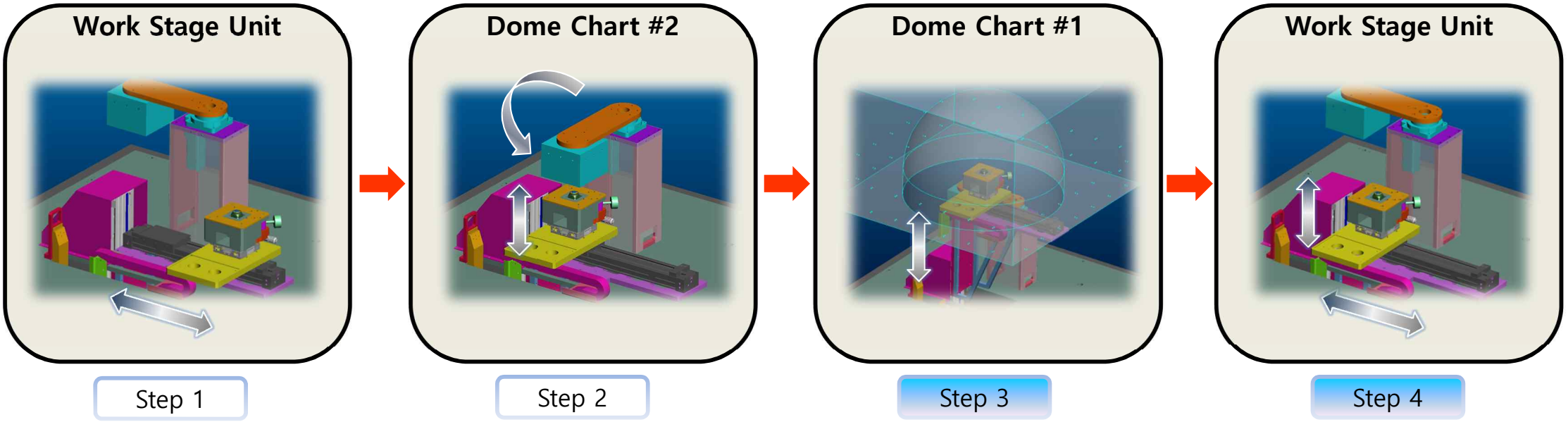
1.2 System Size & Unit Lay-Out



2. Test Item

Classification	Item
Focus Test	Resolution
	MTF
Image Quality Test	White Signal Test
	White Sensitivity Test
	White Color Tone Test
	White HNoise Test
	White Image Shading Test
Image Defect Test	Stain Test
	Scratch
Image RGB Test	Corner Vignetting Test
	Color Vignetting Test
	RGB Dark Test
Electrical Test	Current Test(Dynamic / Standby)

3. System Process



[Work Process]

 # Step 1

- Operator puts the camera module on the work stage and press the start button

 # Step 2

- The work stage moves to the center of the dome chart by cylinder and matching the camera module with dome chart center by rotating Dome chart #2

- Work stage moves up by Z-Transfer, make a dark environment for the Dome Chart #2 and start inspection.

 # Step 3

- After inspection, Dome Chart #2 rotates back to the original position.

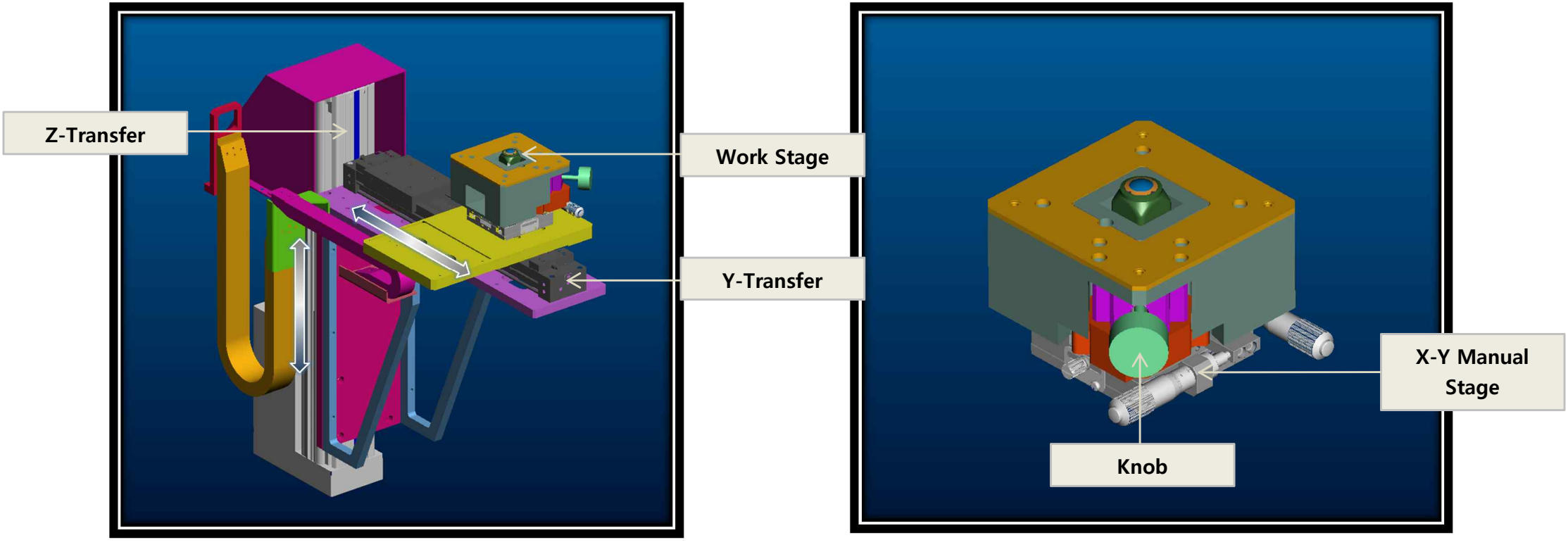
- Work Stage moves up to Dome Chart #1 inspection position and start the inspection.

 # Step 4

- After completing all the inspection, work stage moves down and transfer to the camera module loading position by Y-Transfer. Then operator takes out the camera module.

4. System Structure

4.1 Work Stage Unit



[Work Stage Unit]

1. Camera Module Work Stage Moving System

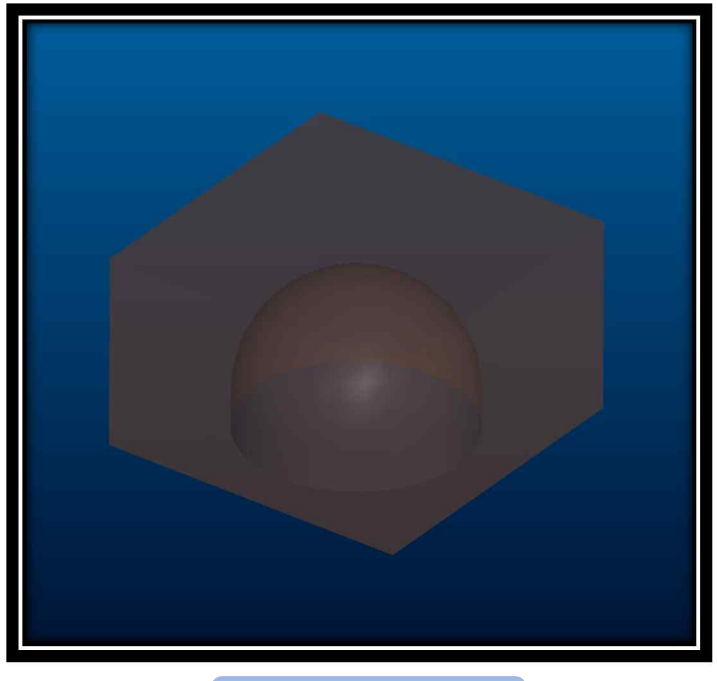
- **Up/down by Z-Transfer Servo Motor**
- **Forward/backward by Y-Transfer Cylinder**

2. Work Stage

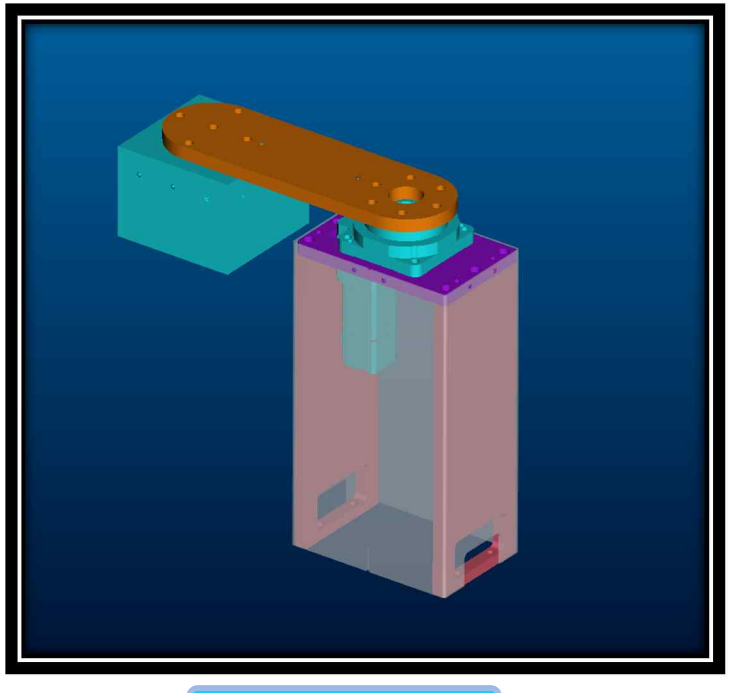
- **It is possible to fine tune the center position by X-Y Manual Stage**
- **When loading the product, pull out the knob, place the product and take off the hand. Then, the product would be fixed by spring.**
- **Work Stage can be converted when the camera model is changed.**

4. System Structure

4.2 Dome Chart #1 & #2



Dome Chart #1



Dome Chart #2

[Dome Chart #1,2]

1. Dome Chart #1

- **Size : 844.0 x 844.0 x 522.0 (LxWxH)**
- **Luminous Angle : 216도**
- **Light source can be controllable according to the product features. (Controller)**

2. Dome Chart #2

- **Size : 144.0 x 144.0 x 85.0 (LxWxH)**
- **Rotation by R-Transfer Servo Motor**
- **Color Temperature : 5500K**
- **Light source can be controllable according to the product features. (Controller)**

5. Nothing Special

- The final inspection system can be used as module inspection system by using both Dome Chart #1, #2.
- The final inspection system can be used as pre-focusing inspection system by using only Dome Chart #1.

Technology
Connecting
Human & Nature