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## Interface 6A40A Multi-Axis Radio Surgery Robot

## Specifications

- Product Name: Radiosurgery Robot Multi-Axis
- Industry: Medical and Healthcare
- Load Cell Model: 6A40A 6-Axis Load Cell
- Acquisition System Model: BX8-HD44 BlueDAQ Acquisition System

## Product Usage Instructions

### Installation:

1. Locate the joints of the radiosurgery robot where the load cell will be installed.
2. Carefully attach the 6A40A 6-Axis Load Cell into each joint, ensuring secure placement.

### Testing Process:

1. Perform a movement test on the radiosurgery robot to simulate its actions.
2. Use the load cell to capture force and torque measurements during the movement test.

### Data Acquisition:

1. Connect the load cell to the BX8-HD44 BlueDAQ Acquisition System using the provided cables.
2. Use the BlueDAQ software to display, log, and measure the test results accurately.

## Radiosurgery Robot

### Multi-Axis

**Industry:** Medical and Healthcare

## Summary

## Customer Challenge

Radiosurgery is a medical procedure that uses targeted radiation to remove cancerous tumors or masses in the body. Radiosurgery robots are used to target these abnormalities and deliver radiation through a minimally invasive way, with high precision and accuracy. Load cells are needed to test and calibrate the robotic arm before affecting a patient.

**Interface Solution**

Interface's 6A40A 6-Axis Load Cell can be installed at the joints of the radiosurgery robot. The amount of force and torque exerted must be monitored in order to ensure each joint can handle the precise movements and loads without failing. These results can be logged, displayed, and measured when connected to Interface's BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software.

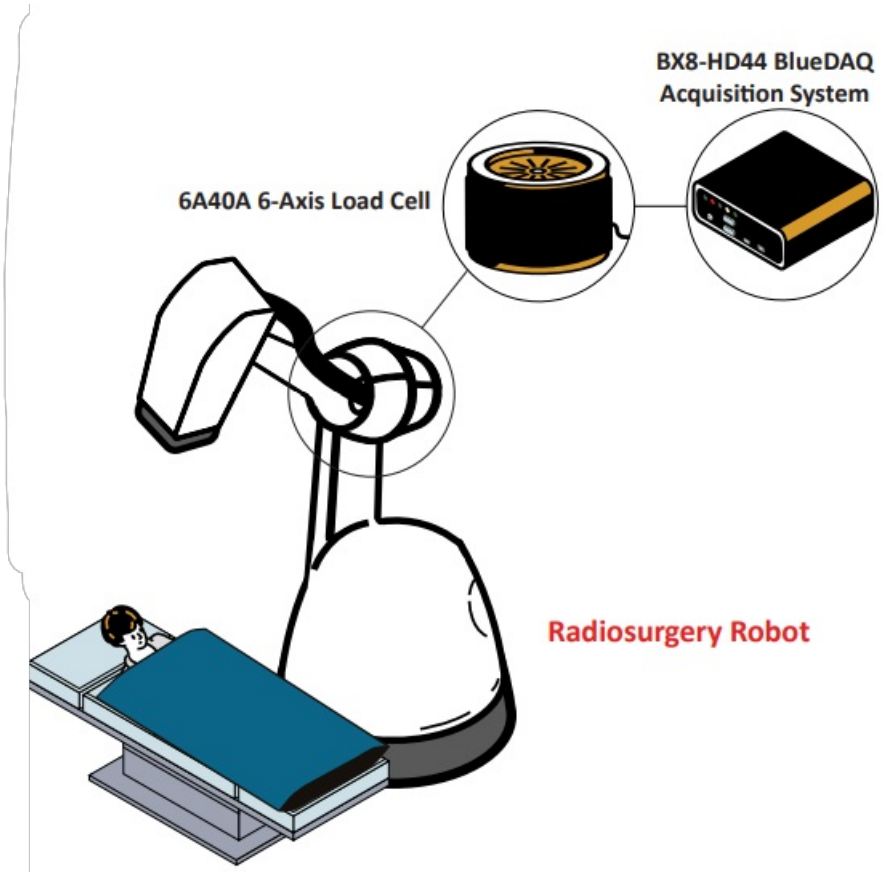
**Results**

The customer was able to test and monitor the radiosurgery robot with Interface's multi-axis load cell, ensuring it was able to handle precise movements before being used in surgery.

**Materials**

- 6A40A 6-Axis Load Cell
- BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software
- Customer's radiosurgery robotic arm and control system

**How It Works**




1. The 6A40A 6-Axis Load Cell is installed into the joints of the radiosurgery robot.
2. A movement test is done, and the force and torque measurements are captured and monitored.
3. Test results are displayed, logged, and measured when connected to Interface's BX8-HD44 BlueDAQ Series Data Acquisition System with included BlueDAQ software.

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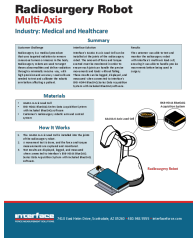
**FAQ**

- **Q:** Why is it important to use a load cell in testing a radiosurgery robot?
  - **A:** Load cells are crucial for monitoring the force and torque exerted on the robot's joints to ensure they can handle precise movements without failure, ultimately guaranteeing patient safety during surgeries.
- **Q:** Can the test results be saved for future reference?
  - **A:** Yes, the results can be easily logged and stored using Interface's BlueDAQ

software, allowing for future analysis and comparison if needed.

## Documents / Resources

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### References

- User Manual

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