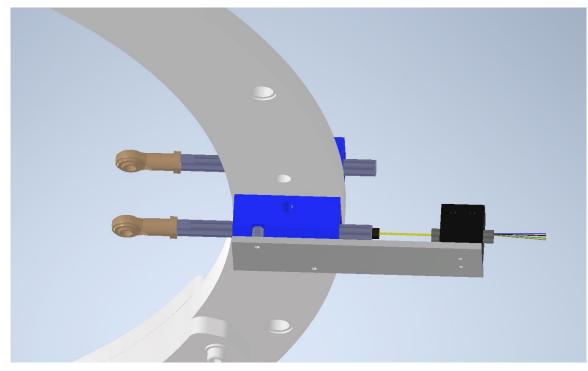
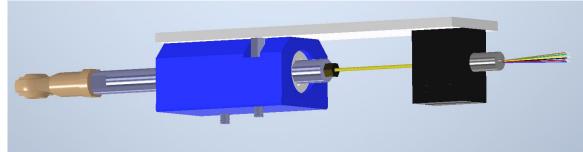
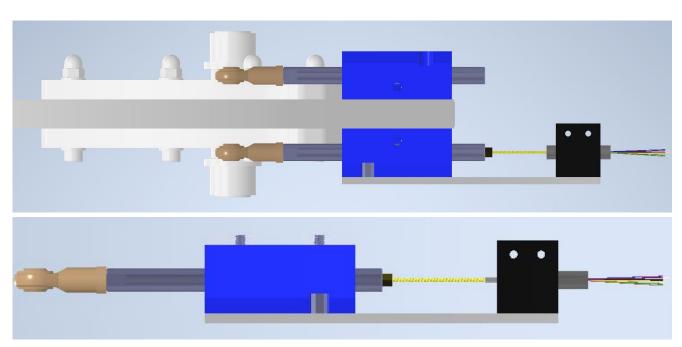
LVDT Sensor Mounting on the Trolley

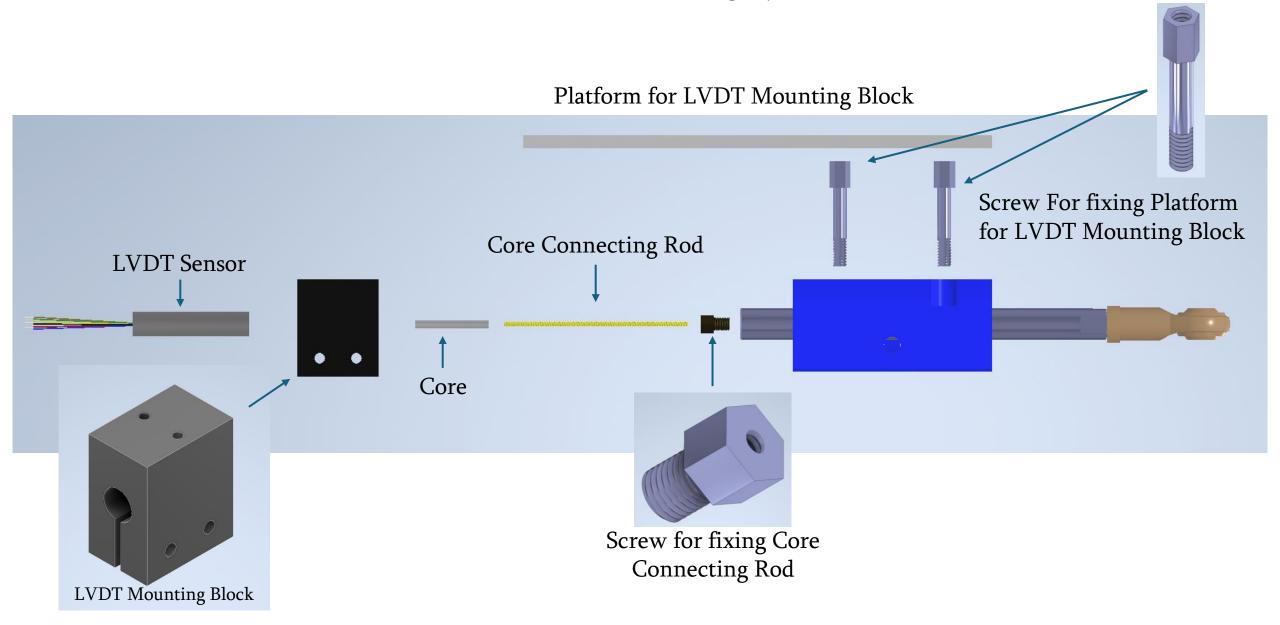






Beka Buadze Zaza Cubinidze Marianna Testa Matteo Beretta

LVDT Sensor Mounting by Parts



Summary

Aluminum CTE - $23.0 \times 10^{-6} \text{ °C}^{-1}$

The expansion of aluminum in our situation will be 184 μm when the temperature changes from -40°C to +40°C.

Carbon Fiber CTE 5×10^{-6}

The expansion of Carbon Fiber in our situation will be 40 μ m when the temperature range is -40°C to +40°C.

Invar (Fe64%/Ni36%) CTE $1,2 \times 10^{-6}$

The expansion of Invar in our situation will be 9.6 μ m when the temperature range is - 40°C to +40°C.

We're planning to use carbon fiber Sheets 300X300X2 mm



The LVDT Mounting Block will be made from several glued sheets of carbon fiber.