

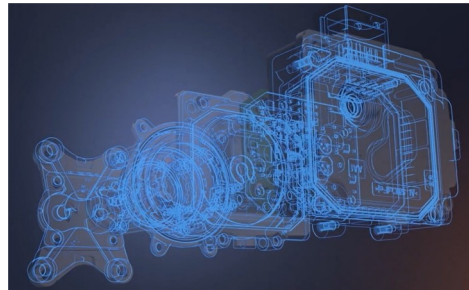
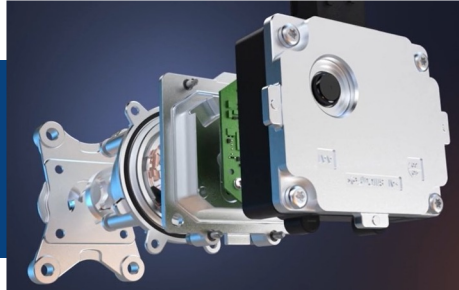
# Case Study : ELOP (Electrical Oil Pump)

E2E Offerings

Domain Led Eng.

Smart & Connected World

Eng. Led Business Transformation



**BOSCH** Microsoft

**Making The Invisible .... Visible!**

## ELOP in a vehicle is exactly as critical as a heart for the human being!!

### Challenge

The invisible potential problems needs to be detected & isolated when the pump is on the manufacturing line & not when assembled on the vehicle!

Once the pump is operational on the vehicle it must exchange information with the pump manufacturer, vehicle OEM & the Driver!

### Solution Offered

While manufacturing & before dispatch, customers of VHIT can now experience testing of pumps & enhance reliability topics via cloud, need based on Hololens2.

When assembled on a vehicle, the pump will communicate with the vehicle OEM & the driver of the vehicle as well.

### Benefits

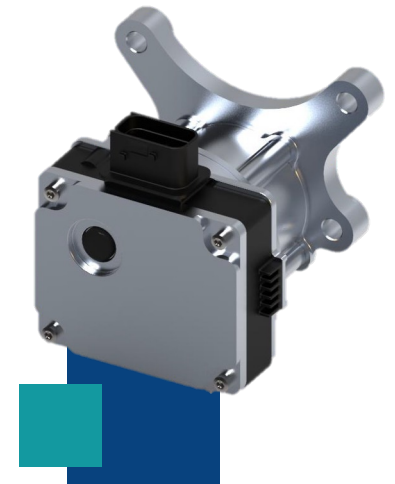
Optimizing product life cycle by reducing the functional testing efforts thus ensuring precision and quality of the pump through digital intervention.

Engineering insights based on the live data, which can be leveraged for innovation

Estimates the temperature of critical electronic and electrical components through virtual sensors thus eliminates the need for physical sensors

Predicts the failure of the product before it fails, and provides suggestion to avoid failures

The connected ELOP can integrate seamlessly into the Digital ecosystem of the vehicle OEM.



Internal

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