

Technologies for AR-services

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This demonstration presents technology highlights of the ARVIKA Augmented-Reality System and applications in the area of service and maintenance.

Augmented Reality Technologies: the AR-Browser

The ARVIKA Augmented Reality System includes many state-of-the-art features, such as markerless tracking and calibration of optical see through displays. The whole AR-Browser can be regarded as a complete VR-System expanded with special Augmented Reality capabilities encapsulated in an Internet Plugin. Thereby the AR-Browser can easily be introduced into already existing diagnostic-tools and web-infrastructure of companies.

Augmented Reality scenario at a machine tool

This demonstration presents an Augmented Reality scenario at a machine tool. The task consists in the replacement of a defect roller switch. An Augmented-Reality animation shows an assembly/disassembly workflow, which guides the service technician during his task. This scenario demonstrates the current state of the system and how it can be applied in an industrial production or service environment. The machine tool is a *V100* of the company *Index*.