



Project „Flexible Assembly Processes for the Car of the Third Millennium (MyCar)“

Problem Description (High Level)

Equipment Maintenance Monitoring SW

CASP



Problem Definition

Modern manufacturing systems strive to reduce both the amount and the cost of engineering maintenance, while at the same time ensuring that equipment safety, reliability and integrity are not compromised. In order to do so, condition based maintenance concepts have been introduced, allowing reduce the maintenance costs and ensuring the same time the reliability of the equipment.

However, today's maintenance concepts impose strict maintenance schedules at fixed time intervals without taking into account the equipment condition, increasing significantly this way the costs.

Problem Definition

This tool aims to support the transition from scheduled based maintenance to condition based maintenance, in order to

- Reduce the maintenance costs
- Reduce the maintenance time
- Increase the utilization of the assembly line

Problem Definition

Monitoring of the Clamp and Prediction of its Remaining Useful Life

Installation of the:

- Clamp
- PLC
- Monitoring sensors
 - Temperature
 - Current
 - Voltage
 - Power

