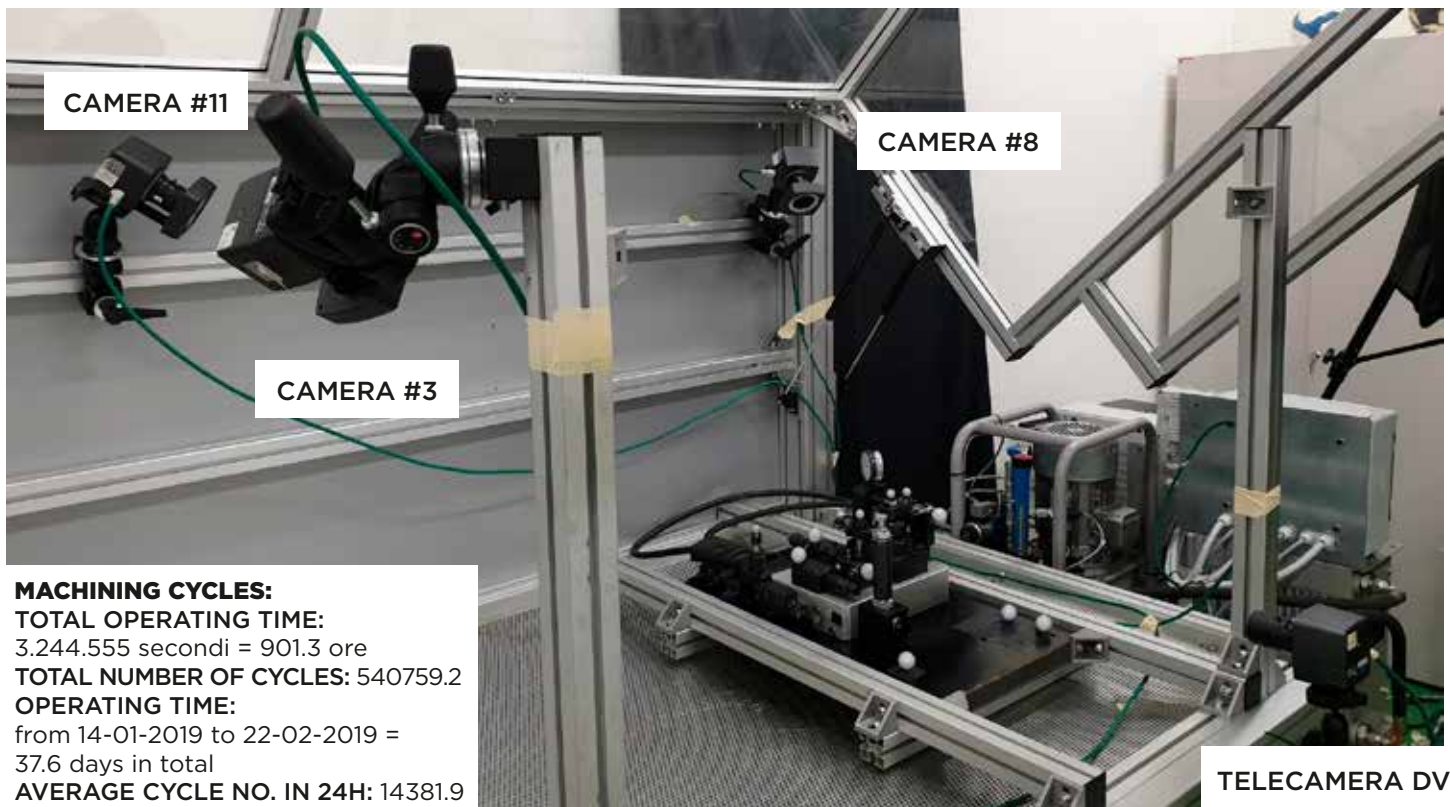
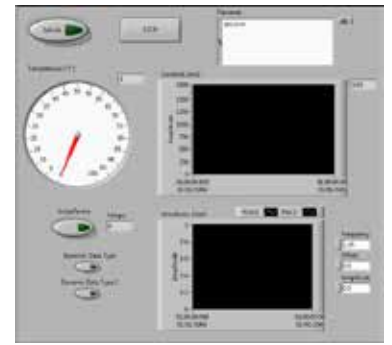
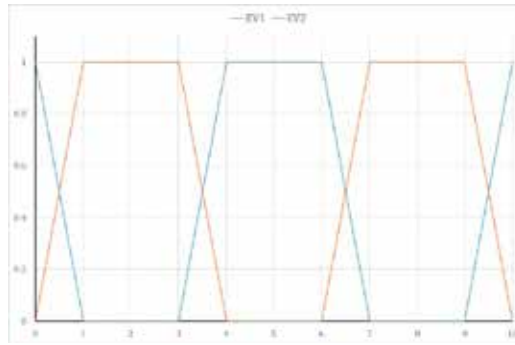
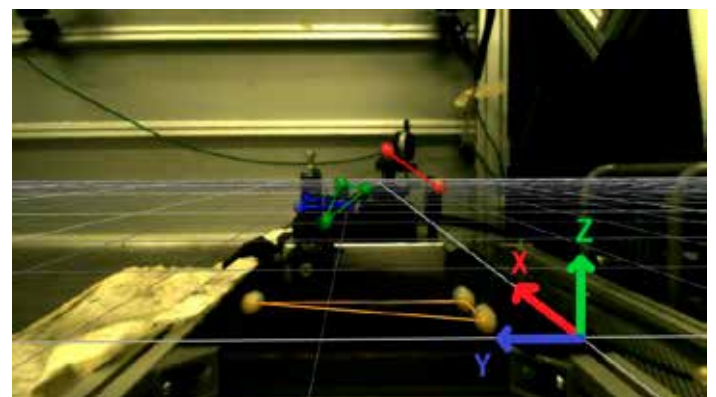
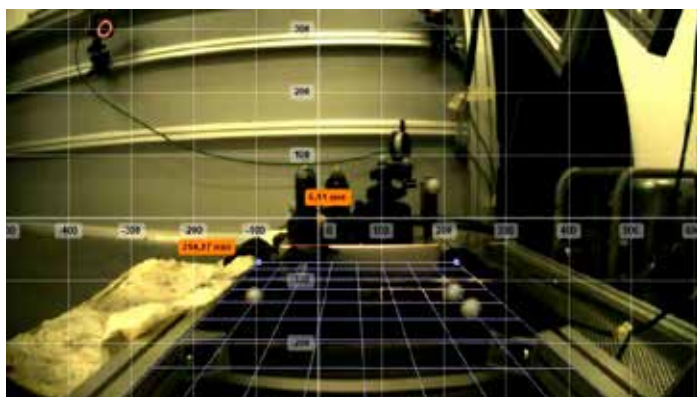


# STUDYING THE INFLUENCE OF FATIGUE CYCLE ON THE DYNAMIC PERFORMANCE OF SELF-ADJUSTING SWING CLAMP CYLINDERS

## SOLENOID VALVE CONTROL SYSTEM



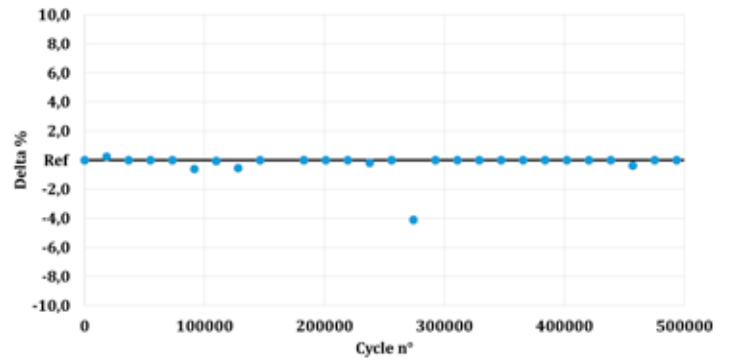
**MACHINING CYCLES:**  
**TOTAL OPERATING TIME:**  
 3.244.555 secondi = 901.3 ore  
**TOTAL NUMBER OF CYCLES:** 540759.2  
**OPERATING TIME:**  
 from 14-01-2019 to 22-02-2019 =  
 37.6 days in total  
**AVERAGE CYCLE NO. IN 24H:** 14381.9



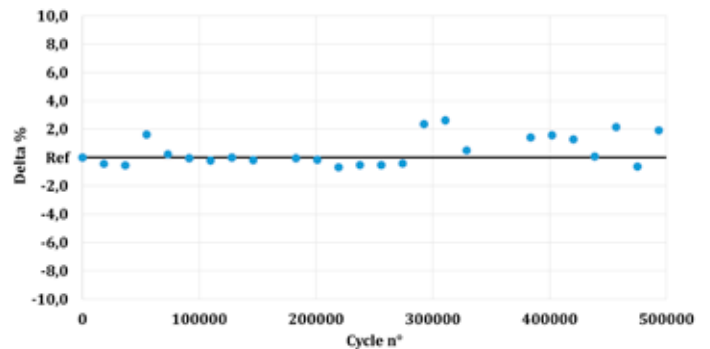
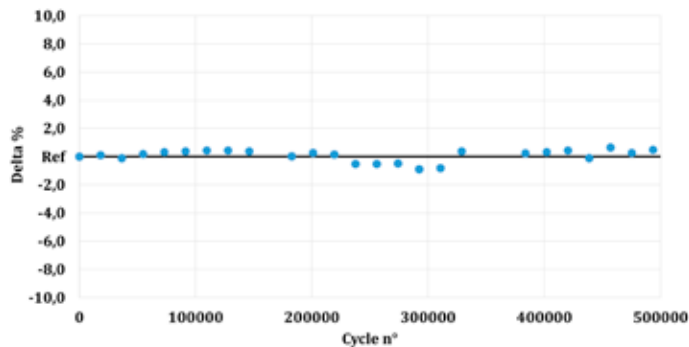
## 500,000-cycle test (2019) - what was tested?

- CE16 - Hydraulic power unit, 3 l/min - 250 bar
- SRA16FDS - Self-adjusting swing clamp cylinder  
PATENTED
- SR16FDH - Swing clamp cylinder, compensated with HPC system
- IRFP16.8D - Work support, double-acting
- VSQM30R Sequence valve (three different sizes)
- VRP3-11M - Pressure reducing valve
- RPSM - Hydraulically pilot-operated check valve
- FIC14-10 - Built-in filter, mesh size 10 micron

### DEVIATION ON THE Z-AXIS - SRA16



### DEVIATION ON THE X-AXIS - SRA16



### DEVIATION ON THE Y-AXIS - SRA16

