Ausschreibung in unserer Fachgruppe

Fluidtechnische Komponenten
für eine konstruktive

Master- / Bachelorarbeit

Modification of a Test Bench
Unleaded tribology only

In fluid technology many tribological contacts are still manufactured out of lead-containing brass alloys. This hard/soft material pairing increases the efficiency through the inlet effect. Unfortunately, lead is very harmful to the environment and its use is therefore already heavily regulated. In the foreseeable future, the heavy metal lead should be completely avoided. As the four most important tribological contacts of swash plate axial piston machines are currently still frequently realized with brass alloys, this component is particularly affected. The widespread use of this type of construction also results in a high level of economic and scientific interest.

The aim of this thesis is the construction of a test bench for testing the tribological contact between piston drum and control mirror. An existing test bench at ifas serves as the basis for this. After the literature research, the requirements have to be determined. Necessary modifications have to be designed in CAD.

Deine Aufgaben:

- Literature research
- Deriving the requirements
- Construction of required components
- Documentation of the work

Your strengths:

- Highly motivated and interested
- Independent work ethics

We offer:

- An interesting research field
- An extended support during the thesis
- A pleasant and productive work environment