

Bachelor Thesis

Subject:

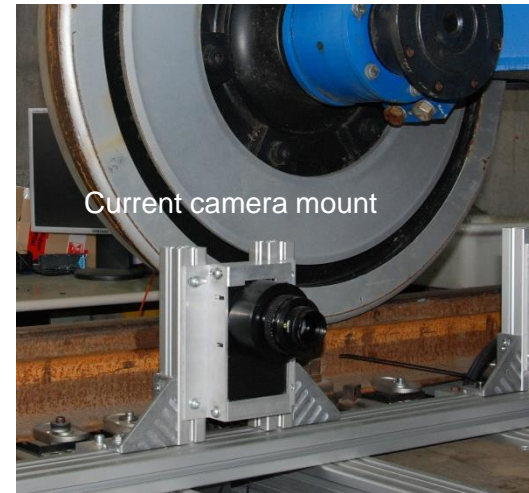
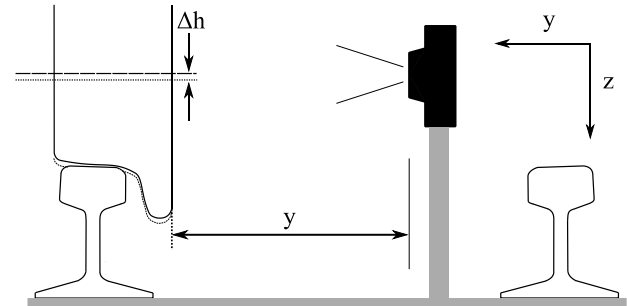
Conception of a precisely positionable camera mounting for an optical measuring system

Situation:

To determine the deviation of the roundness of rail vehicle wheels, a measuring system is being developed at the Institute for Rail Vehicles and Transport Systems which will perform this optically. The cameras of the measuring system are attached to a profile on the track. The current mounting does not optimally align the cameras parallel to the measuring level, resulting in distortions in the recorded images. This misalignment is caused by the requirement that the measuring system must be mobile and quick to remove. The aim of this thesis is to develop a concept of a new camera mounting which allows a more precise alignment of the cameras.

Tasks:

- Learning about the requirements for camera mounting
- Determination and evaluation of several concepts of a camera mount
- Development of a concept for the camera mount
- Documentation



Contact person ifs

Nils Jagodzinski
Institut für Schienenfahrzeuge und Transportsysteme (IFS)
Ground floor, Room 005
Seffenter Weg 8, 52074 Aachen
Tel.: 0241 / 80 - 25584
E-Mail: Nils.Jagodzinski@ifs.rwth-aachen.de