19th Seminar of Track Management STRAHOS 2022

Long-term monitoring of tram track crossings

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Content

- Introduction
- Wheel profile
- Typical defects and deformations
- Measurement
- Conclusions



- **Preventive welding and maintenance tramway shallow** crossing
- **Project TACR ZETA: "Long-term monitoring of track** construction at tram crossings"
- Prazska strojirna a.s. & DPP



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- Shallow crossing -> shallow wingey (=14 mm)
- Head loss, deformation









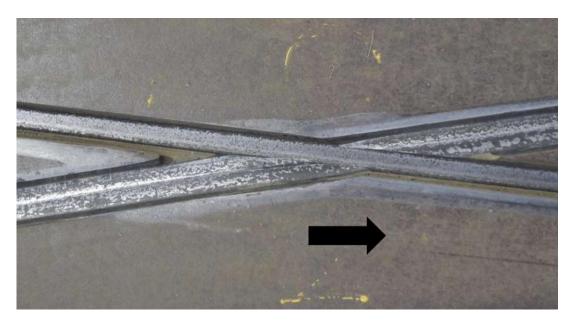


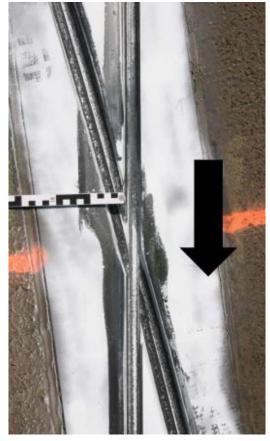
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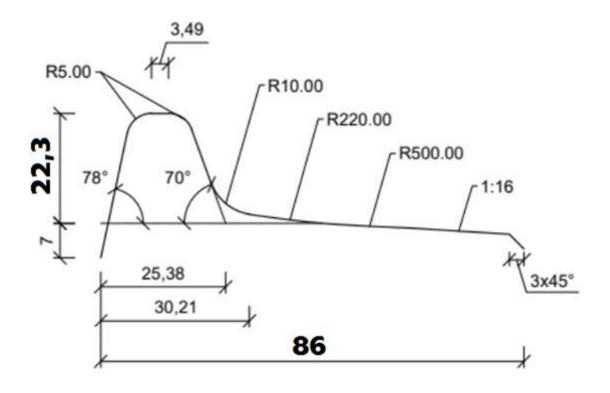








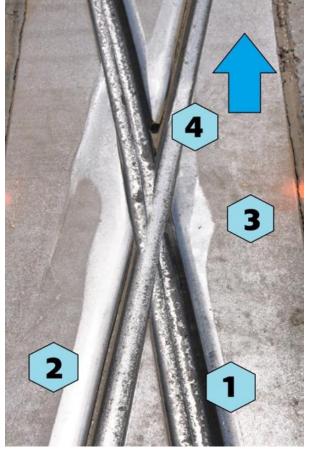




PR-K wheel profile 86 mm wide used for a tram wheel in DPP



Typical defects and deformations of crossing with a shallow groove



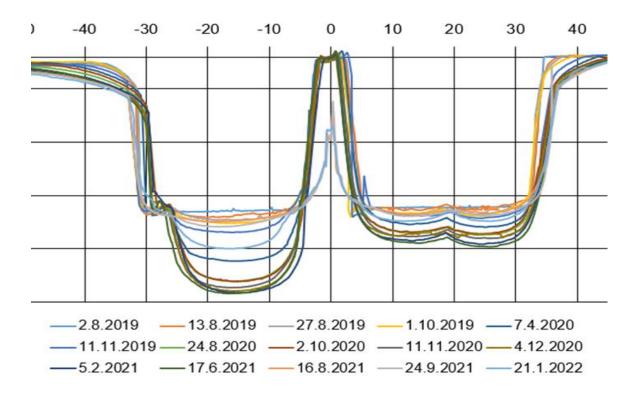




Measurement of the cross-section profile of crossing grooves



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Comparison of the condition and development of the grooves behind the vee end of the Vyton crossing over a period of 2,5 years



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Welding and reprofiling of the crossing Vyton (12.7.2020)





Crossing Výtoň after welding and reproflation. The transverse application of the caterpillars is noticeable



Conclusion

- Head loss of flangeway -> head loss of wingey
- Welding and reprofiling of the crossing



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Thank you for your attention.

