

# Railway Wheel Test Stand

## Full-size Roller Rig

### *wheel*

diameter 860–1000 mm  
braked by a dynamic brake

### *attack angle adjustment*

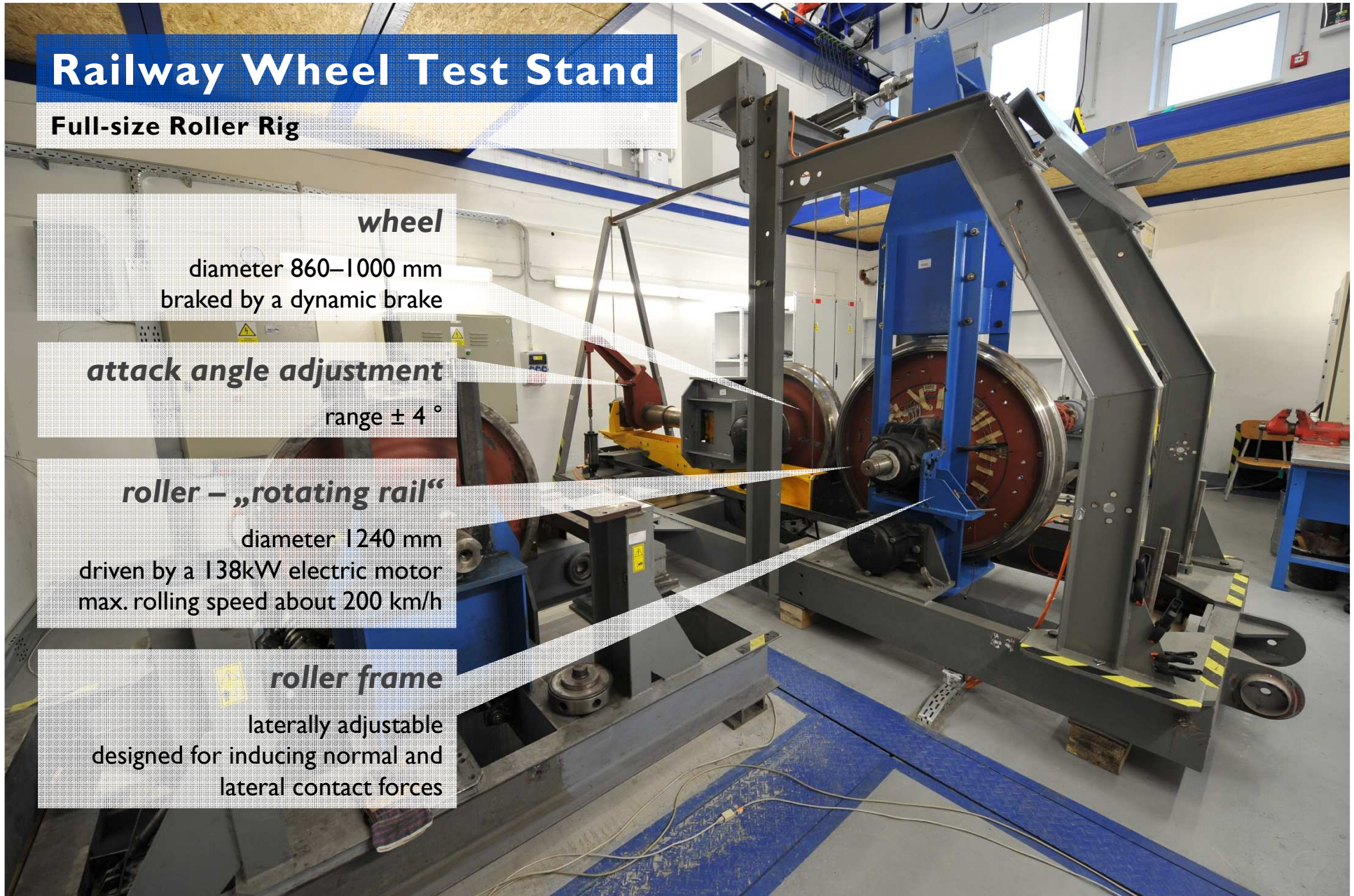
range  $\pm 4^\circ$

### *roller – „rotating rail“*

diameter 1240 mm  
driven by a 138kW electric motor  
max. rolling speed about 200 km/h

### *roller frame*

laterally adjustable  
designed for inducing normal and  
lateral contact forces





# Railway Wheel Test Stand

## Full-size Roller Rig

- Research of wheel–rail contact, railway adhesion, safety against derailment
- Development of measurement technology for research and testing of rail vehicles
- Testing of materials (wear & RCF performance)



# „VDP“ Test Rig

Material Testing Machine

**roller – „rotating rail“**

diameter 915 mm

**test disc**

diameter 136 mm  
designed as split disc to hold  
multiple material samples

- Testing and development of materials for wheels and rails
- Testing of solid lubricants for wheel–rail interface



# Amsler Twin-Disc Machine

## Standard Small-scale Equipment

frictional work  
measurement

COF recording

test discs

lubrication  
stick holder

- Testing of steel materials – resistance against wear & fatigue in rolling contact
- Testing of solid lubricants for wheel–rail interface

AMSLER  
Type: A 10  
Machine Nr.: 5011  
Kom. Nr.: 1076  
Bauteil: 1076  
Werkzeugmaschinen GmbH