Talgo 2017

- founded in 1942, ca. 2,000 staff worldwide
- our products: HST, hotel trains, passive tilting, gauge-changing trains, maintenance
- own depot activities in Spain, USA, Germany, Kazakhstan, Uzbekistan, Saudi-Arabia, Russia
Talgo Maintenance Equipment

- Wheel Diagnosissysteme
  - EVA – Wheel Profile Check
  - DSR – Ultrasonic Check of Running Band
  - EMO – Out-of-Roundness Check
- Underfloor Wheel-Lathes (UWL)
  - Model 2112: up to 18/20 t axle load
  - Model 3112: up to 25/30 t axle load
  - Model 4112: up to 45 t axle load
- Shunting Cars
- Wheel and Axle Changers
- Manual Calipers
Talgo Underfloor Wheel-Lathe

Talgo UWL 2112 Single
Underfloor Wheel-Lathe

Talgo UWL 3112 Single
Talgo UWL 4112 Single
Talgo Tandem-UWLs
Customized Adaptations
Advantages and Characteristics of a Talgo-UWL

- easily adaptable to local infrastructure
- from 760 mm to 1676 mm track gauge realised
- efficient redundancy is our principle (4 individual drive units, two redundant operational panels, divided hydraulic units, ...)
- customized hold-down and swarf transportation concepts
- economic turning concept, manually or semi-automatic
- ergonomic operation from outside the vehicle’s static envelope
- amendable to a complete wheel-maintenance centre concept
- 24/7 service by maintenance experts (service hotline, telediagnosis, 24h on-site support)
- The only UWL developed by a railway maintenance company!
The Technological Circle

Wheel Monitoring Equipment:
Fully automatic check of all relevant wheel parameters

Software:
timely planning of corrective action

UWL:
creating the desired wheel geometry
The Complete Concept

- Central PC
- Underfloor Wheel-Lathe
- Wheel Diagnosis
- Shunting Cars
Talgo UWL and Wheel Diagnosis System EVA
Why Using Automatic Wheel Diagnosis?

• Quick, frequent & fully automatic measuring of wheel parameters without influences of human failures
• Automatic handling advices
• Survey on wheels’ history and wear
• Support to optimize your wheel profiles
• Customized data check
  ➢ Less unscheduled laydown of vehicles
  ➢ Safer operation
  ➢ Prolongated wheel lifetime by optimized reprofiling
  ➢ Better planning of depot activities
  ➢ Reduction of fleet
EVA - Wheel Profile Check

- Laser-based profile analysis
- Measuring of all relevant parameters and diameters
- Fully automatic measuring between 0-15 km/h (EVA 2) / 0-50 km/h (EVA 3)
- Integrable into existing infrastructure
- Proven concept for all kinds of rail vehicles and in different surroundings
Wheel Diagnosis

EVA - Data Evaluation
Wheel Diagnosis

Examples of Applications
Contact & After-Sales-Service

- Next service station: Berlin
- 24/7 availability

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