



Vogel & Plötscher

Rail profile
measurement
devices

HMG

Digital frog measuring system



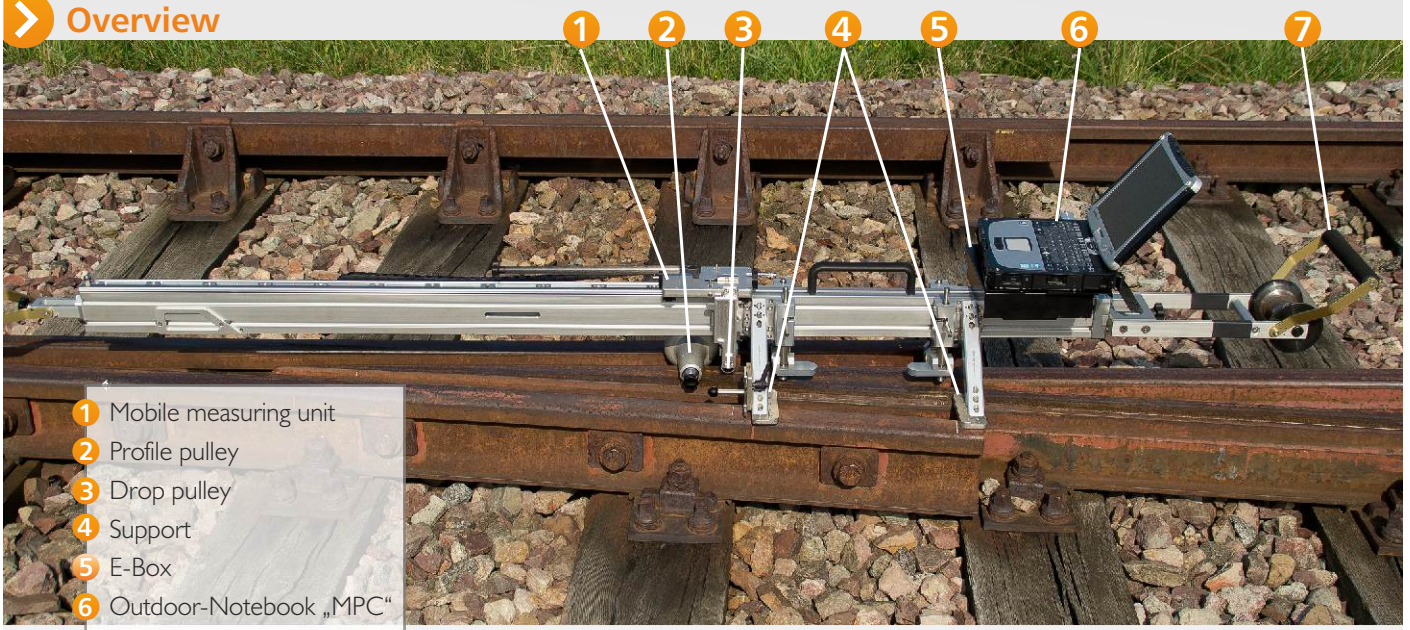
➤ Rail profile



➤ Digital



Overview



- 1 Mobile measuring unit
- 2 Profile pulley
- 3 Drop pulley
- 4 Support
- 5 E-Box
- 6 Outdoor-Notebook „MPC“
- 7 Handle

Operation

The digital frog measuring system HMG surveys the frog geometry according to a customized wheel profile. Additionally the condition of the frog nose is checked. The HMG is aligned with the running rail by means of stop pins while the reference level is given through the wing rails. The overall measuring range covers a distance of 1,040 mm.



Data capture is performed continuously by a measuring unit consisting of a vertical moveable profile pulley and a drop pulley. Thus all important geometric parameters are considered. The measuring procedure is carried out manually and completed within seconds. Measuring data are saved and evaluated on site by means of the outdoor notebook supplied.

Features

- + Digital survey of the frog geometry
- + Comprehensive analysis of frog's running surface and transmission area
- + Target/actual comparison of the frog profile
- + Data basis for frog stress calculations
- + Specification of precise parameters for corrections of the frog geometry
- + Approved by Deutsche Bahn (DB)

Technical data

Measuring range related to rail surface (RS)			
	below RS	above RS	total
Path sensor			1040 mm
Profile pulley (D1)	14 mm	36 mm	50 mm
Drop pulley (D2)	24 mm	30 mm	54 mm
Sampling rate	1,0 mm		
Length x width x height	2465 x 435 x 300 mm		
Weight	24,5 kg (including notebook)		

