TEE-1435 Track Gauge for Switches

The track gauge is designed for geometry measurements of track and switches. The gauge has all features of the TEC one and, in addition, makes it possible to measure all geometrical parameters of switches specified by pertinent regulations. The measurement results are stored in a continuous way along the measurement path, and moreover, at the user-defined switch characteristic points one can easily obtain readings for all parameters at a given location. The system software maintains integrity control of all measurement data for a given switch type.

1. Basic technical specification of the track gauge in the switch measurement mode:
   - measurement of all switch types used in Poland and The Netherlands
   - mileage measurement increment 31 mm
   - measurement of groove widths: left and right
   - gauge - range: 1420÷1485; resolution: 0.1 mm
   - cant - range: ±200 mm; resolution: 0.1 mm
   - vertical irregularities - range: ±4 mm / 1 m; resolution 0.1 mm
   - horizontal irregularities - range: ±5 mm / 1 m; resolution 0.1 mm
   - the measurement system calculated twist of the track, gradient of the track gauge, twist of the switch, and location of the left and right check rails.
2. The PC software delivered along with the device makes it possible, among others, in addition to options offered by the TEC-1435 device, generating the detailed measurement reports for the switches. Switch condition quality assessment is also carried out.

The gauge has many operational advantages. Low weight (about 20 kg) makes fast removal from the track possible to let the train pass, next, immediate continuation of the measurements is possible without any calibration. The track gauge may be folded easily and transported even in a small car.

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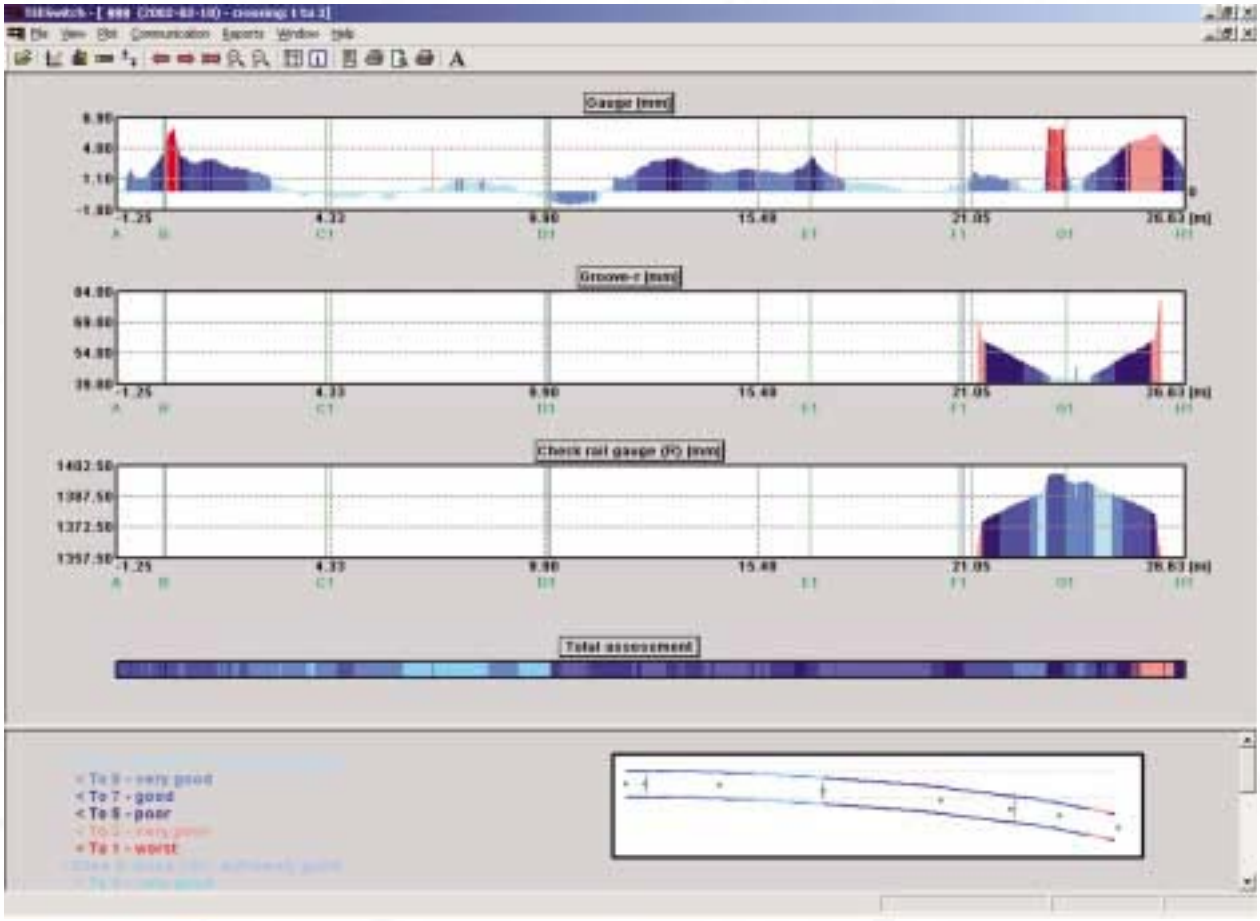
TEE-1435 Track Gauge for Switches



Example of the measurement data analysis

Meetrapport

Geometrie wissel 999

Contractgegevens

Opdrachtgever	Volker Stevin Rail & Traffic
Contract gebied	1
Contact persoon	Clemens Schone
Telefoon	no defined
e-mail adres	no defined

Objectgegevens

Wissel nummer	999	Fabrikant	
Wissel type	stand UIC54-R 200-1:9 Rechts	Datum inbouw	2001-01-01
Locatie	Alkmaar	Datum vervanging	2026-01-01
Spoor	0		

Samenvatting meetresultaat

Kwaliteit	2001-11-15	----	
geometisch Q5	4.3	----	
dynamisch ligging Qj	8.3	----	
meetpunt Qm	8.2	----	
Opmerkingen:			

Uitvorringgegevens

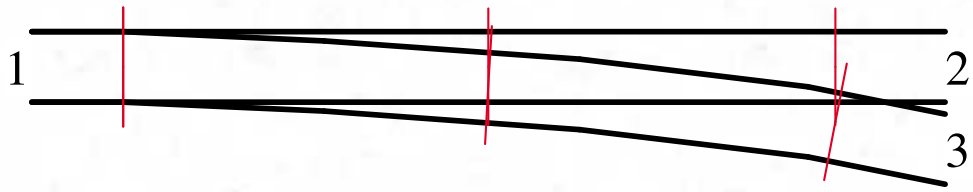
Meetspecialist	jan dekker	Meetinstrument	no defined
Afdeling	Volker Stevin Rail & Traffic	Datum meting	2001-11-15
Opdrachtnummer	215915	Handtekening	
Contactperson	jan dekker	no defined	no defined

Volker Stevin Rail & Traffic

Meetrapport

Afwijkingen rapportage

Wissel nummer 999
Wissel type stand UIC54-R 200-1:9 Rechts
Datum meting 2001-11-15



1 to 2	B	C	D	E	F	G	H
1 to 3	B1	C1	D1	E1	F1	G1	H1
1 to 2,3	A						

malputen punt	positie [m]	spoor wijdte	verkanting	vertikaal	horizontaal	groef-wijdte [R]	groef-wijdte [L]	strijk-maat [R]	strijk-maat [L]
nominaal		1435.0	0.0			41.0	41.0	1394.0	1394.0
C	6.06	-2.9[-2/5]	---	---	---	---	---	---	---
E	17.84	-2.5[-2/5]	---	---	---	---	---	---	---
G	24.94	---	---	---	---	---	40.8[0/2]	---	---
C1	5.59	-9[-2/5]	---	---	---	---	---	---	---
E1	18.00	-2.5[-2/5]	---	---	---	---	---	---	---
F1	21.78	-3.6[-2/5]	---	---	---	---	---	---	---
G1	24.78	---	---	---	---	---	---	---	1391.4[±2]

Handtekening .....

rapport datum: 02-April-2002