



Walking Profiler

Model: TBTPQL-S series (TBTPQL-BS/CS)

Introduction

TBTPQL-S Series walking profiler belongs to the computerized pavement longitudinal section profile data collection and pavement flatness (direct detection type), structural depth (non-contact measurement) analysis system. It can detect the profile curve of the longitudinal section of the road in real time, and convert the measured profile curve into various flatness indexes and structural depth indexes through a mathematical model.

TBTPQL-S Series are used for flatness acceptance of new pavement construction and flatness evaluation of existing pavement. Meanwhile, it can be used as a standard flatness meter for the calibration/correction of other flatness meters. It can be used for urban roads, new pavements, tunnels, airports acceptance and inspection of the structural depth of the runway and other areas.

TBTPQL-BS: IRI

TBTPQL-CS: IRI + SMTD

Referring Standard :

ASTM E950 / ASTM E2133

Technical specification

No.	Description	Specification
1	Measurable index	IRI, RN, RQI --TBTPQL-BS IRI, RN, RQI, SMTD / MPD --TBTPQL-CS
2	Output result	Various roughness indexes Road profile curve and height (height difference) data of each sampling point
3	Operating characteristics	
	Number of operators	1 person
	Operating speed	Normal walking speed (1m/s)
	Calculate the length of the road section	Any length above 5m
	System power supply	Li-battery
4	On-site output	Direct analysis on site and result printing
	Performance	
	Correlation of flatness reference results (reference level)	relative coefficient R2> 0.95
	Resolution of measurable profile height difference	< 0.05 mm
5	Distance detection resolution	< 12.5 cm
	Measurement	Around 650×380×350mm
6	Gross weight	Around 20KG

Standard Configure

- A. Testing troller * 1pc
- B. Tablet PC * 1pc
- C. Data collecting software
- D. Carrying case
- E. Instruction manual

Software Interface

