

Id: CRT		Nanjing
Institution: Road and Bridge Laboratory at Southeast University		P. R. China

Type: Circular Test Track

Construction (commissioned): 1985



Dimensions

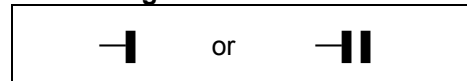
Mean diameter	10 m
No. of arms	2

Loading

Range of Load ^(*)	40-140 kN
Transverse distribution	± 360 mm

^(*) Wheels loads (half axle) are converted to the corresponding axle loads.

Axle configuration



Speed

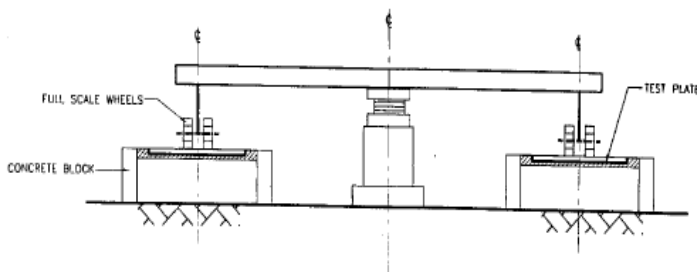
Vehicle Speed (max.)	60 km/h
Test frequency (max.) (passes/hour/section)	2500
Practical output (loadings/month/section)	500 000

Sections

No. of Sections	1
Thickness	2400 mm
Width	2000 mm

Measured Variables

	Surface	Asphalt	Unbound Layers	Subgrade
Temperature		x	x	x
Moisture content			x	x
Suction				
Deflection (transient)	x			
Vertical Stress			x	x
Horizontal Stress				
Vertical Strain			x	x
Horizontal Strain		x		



Environmental control

Placement	Indoors
Air temperature	®
Pavement temperature	© or ®
Air moisture	-
Freeze-thaw cycles	-
Water table	-
Rainfall	-

- © total control
- @ partial control
- @* indirect control (air Temp.)
- ® registered

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Brief description of Topics/Tests carried out during recent years
In 1980s, CRT was conducted to study on the rutting development principle of typical asphalt pavement in China.
In 1990s, CRT was conducted to validate the asphalt pavement structures used in Hu-Ning expressway in China. Test results are related to the in-situ pavement performance.
In 2000s, CRT was conducted to study on the rutting resistance performance of different asphalt mixtures on road pavement and steel bridge deck.