

HYCZ-5 SERIES WHEEL TRACKING APPARATUS

The wheel tracking apparatus is used to determine the high temperature rutting resistance of asphalt mixtures, to evaluate the deformation resistance to the permanent deformation of a bituminous test. This test is subjected to continue movement of a wheel, that applies the load in an environment with controlled and constant temperature. It can be used for auxiliary inspection of asphalt mixture ratio design, and can also be used for high temperature stability inspection of asphalt mixture on site.

FEATURES

- ⊙ It can be used as water immersion test.
- ⊙ Displacement sensor with high precision, accuracy is less than ± 0.01 mm.
- ⊙ Multi-point acquisition is adopted, high resolution and high speed.
- ⊙ Cylinder loading, pressure adjustment is convenient. Adjustable pressure range: 0.5mpa ~ 1.4mpa.
- ⊙ Computer control, easy to operate.
- ⊙ Real-time pressure can be displayed. Automatic temperature control, automatic generation and storage of test results.
- ⊙ The temperature is collected with an absolute temperature sensor, with wide temperature control range, high precision and good stability.
- ⊙ PWM modulation method is adopted to improve the temperature PID control, to ensure that the temperature without overshoot.
- ⊙ Air circulation and stirring system are adopted to control temperature more evenly.
- ⊙ The test process can be stopped by time or times. (optional)



Model	HYCZ-5	HYCZ-5A	HYCZ-5C
Control method	Laptop	Laptop	Laptop
Specimens can be tested at the same time	1	2	3
Specimens can be cured at the same time	3	6	9
LVDT quantity	1	2	3
LVDT range	0-30mm	0-30mm	0-30mm
LVDT accuracy	± 0.01 mm	± 0.01 mm	± 0.01 mm
Temperature range	40-80 °C	40-80 °C	40-80 °C
Temperature control accuracy	± 1 °C	± 1 °C	± 1 °C
Temperature measurement channel	2	2	2
Wheel speed	42 \pm 1 times/min	42 \pm 1 times/min	42 \pm 1 times/min
Rubber wheel hardness	78 \pm 2(60 °C)	78 \pm 2(60 °C)	78 \pm 2(60 °C)
Contact pressure of wheel	0.7 \pm 0.05Mpa (60 °C), adjustable range 0.5-1.4 Mpa(optional)		
Drive method of wheel	Crank connecting rod		
Working method	the wheel moving on the surface of the specimen		
Specimen size	300x300x(30~100)mm, standard thickness 50mm		
Working mode	Water immersion test and standard test		
Power supply	380V 50Hz	380V 50Hz	380V 50Hz
Power	5KW	7KW	7KW
Dimensions	1520*770*1510mm	1775*960*1500mm	2170*960*1500mm
Weight	350kg	400kg	500kg