

## Pavement laboratory Instruments list



Name	Name
<b>1. Consolidation apparatus</b>	*4.Constant temperature water bath
*1.Triple low-pressure consolidation apparatus	*5.Resilience modulus testing apparatus
*2.Triple middle-pressure consolidation apparatus	6.Folded 3m straight ruler
*3.Triple high-pressure consolidation apparatus	*7.Bearing ratio tester
*4.Double low-pressure consolidation apparatus	8.CBR accessories

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*5.Double high-pressure consolidation apparatus	9.Field soil matrix CBR tester
*6.Light consolidation apparatus	10.Field soil matrix resilience modulus tester
*7.Strain-controlled unconfined compression tester	11.Limestone compression tester
*8.Motorized unconfined compression tester	12.Sand replacement method apparatus
9.K0 consolidation apparatus	13.Pavement resilience modulus tester
<b>2. Shear testing apparatus</b>	14.Pavement resilience modulus tester
*1.Strain-controlled direct shear apparatus	15.Concrete electric penetration testing apparatus
*2.Double-speed motorized strain-controlled direct shear apparatus	<b>9.Asphalt testing</b>
*3.Three-speed motorized strain-controlled direct shear apparatus	1.Automatic asphalt needle penetration testing apparatus
*4.Motorized tetragenous direct shear apparatus	2.Automatic digital display asphalt needle penetration apparatus
*5.Twelve direct shear pre-compression apparatus	*3.1.5m Asphalt ductility testing apparatus (1.5m)
*6.Light duty shear apparatus	*4.1.5m Digital display asphalt ductility testing apparatus
7.Four-bladed vane direct shear apparatus	*5.Digital display asphalt ductility testing apparatus
<b>3.Triaxial testing apparatus</b>	6.Digital display asphalt ductility testing apparatus(2m)
1.Light duty table type triaxial testing apparatus main machine	*7.Digital display asphalt ductility testing apparatus(2m screw rod)
Light duty table type triaxial testing apparatus main machine accessories	8.Asphalt rapid extractor
*2. Table type middle-pressure triaxial testing apparatus main machine	9.Trichloro ethylene trichloro-Et recycle device
Table type middle pressure triaxial testing apparatus accessories	10.Asphalt softening point apparatus
Table type middle pressure triaxial testing apparatus accessories	11.Thin film drying oven
*3. Table type 60KN middle pressure triaxial	12.Asphalt mixture wheel tracking specimen

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testing apparatus (total configuration)	forming machine
	13.Asphalt mixture blender
<b>4.Compacting equipment</b>	14.Full-automatic asphalt mixture mixer
1.Dual-purpose standard manual compactor	<b>10.Testing device &amp; accessories</b>
*2.digital display multifunctional motorized compactor	1.Frame saturator
3.hydraulic dozer	2.Soil divider
4.Electric extruder	3.Soil cutter
5.Marshall compacting machine	4.Original state soil sampler
6.Programmable electric compactor	5.5m spiral soil sampler
7.digital Marshall compactor(double hammer)	6.Triaxial Riffle sampler
<b>5.Humidity, density testing apparatus</b>	7.Scoop
1.Soil water content testing apparatus	8.φ70×38 Soil sampler aluminum container
2.Soil humidity density apparatus	9.φ55×28 Soil sampler aluminum container
*3.Improved type electric relative density meter	10.φ40×20 Soil sampler aluminum container
4.Cone type liquid limit apparatus 76g	11.φ61.8×20 Stainless steel cutting edge
5.Cone type liquid limit apparatus 100g	12.φ79.8×20 Stainless steel cutting edge
*6. Photoelectric liquid plastic limit apparatus (76g)	13.φ50.4×50 Stainless steel cutting edge
*7.Photoelectric liquid plastic limit apparatus (100g)	14.φ50.4×50 Stainless steel cutting edge
8.Natural consistometer	15.φ70×52 Stainless steel cutting edge
9.Soil hardness tester	16.φ70×52 Stainless steel cutting edge (with bottom cap)
10.Natural declinometer	17.φ61.8×40 Permeability stainless steel cutting edge
11.Soil penetration resistance testing apparatus	18.φ58×25 Expansion stainless steel cutting edge
<b>6.Permeability, expansion/shrinkage testing</b>	19.Cutting edge soil dozer

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1.Permeability testing apparatus	20.Lime earth mould
2.Permeability testing apparatus	21.Lime earth mould
3.Expansion apparatus	22.Lime earth mould
4.Shrinkage apparatus	23.Core drilling diamond
<b>7.Grain analysis test</b>	24.Core drilling diamond
1.Soil analysis sieve(set)	25.Core drilling diamond
2.Sand sieve(set)	26.Core drilling diamond
3.Asphalt concrete aggregate sieve( $\phi$ 300)	<b>11.Other instruments: computerized material testing machine(including asphalt mixture, Marshall, bending, split testing clamps)</b>
4.Cement road base course aggregate sieve	2.Geosynthetic materials comprehensive tester
5.Pavement base course aggregate sieve	3.Road material strength testing machine
6.Soil grinder	(Accessories: unconfined compression strength, indirect tensile strength, bearing ratio resilience modulus testing clamp and proving ring)
7.Soil analysis sieve	
*8.Swing type sieve shaker	
9.Swing type sieve shaker	
<b>8.Road testing instruments</b>	
1.Marshall stability testing apparatus	4.Road core drilling machine
*2.Digital display Marshall stability testing apparatus	
*3.Automatic digital display Marshall stability tester	

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