



Sereveral Instruments System

Civil engineering laboratory equipment list

No.	Name	Technical specifications	QTY	Price(USD)	Application
1	Cement paste mixer	Rotation speed 140 - 285rpm , Revolution speed 62- 125rpm	5		Cement testing
2	Cement mortar mixer	Rotation speed 140 - 285rpm , Revolution speed 62- 125rpm	5		Cement testing
3	Cement mortar vibrating table	Amplitude 15mm	3		Cement testing
		Frequency 60time/min			Cement testing
4	Cement electric flexure testing machine	600KN	3		Cement testing
5	Cement compression clamp		6		Cement testing
6	New cement Le Chatelier boiling chamber	Effective volume 31L, heat-reservation boiling time 3 hours	1		Cement testing
7	Le Chatelier mould tester(total set)	Le Chatelier mould LJ-175	2		Cement testing
8	Brinell specific area tester		1		Cement testing
9	Cement consistence		5		Cement testing
10	Negative pressure sieving apparatus	Fineness 80µm, material loading 25g, sieving time 2min, working negative pressure 000- 6000	1		Cement testing
11	cement sample tank		10		Cement testing
12	Le Chatelier pycnometer		20		Cement testing
13	Mud viscometer	Flow out pipe dia. 5mm, 100mm length, water value 15±0.5s; interlayer measuring cup one end of 500ml, another end of 200ml	2		Cement testing
14	Cement special balance	1200g/0.1g	5		General
15	New standard concrete blender(horizontal)	Discharge 60L, mixing time 45s, rotation speed 45rpm	1		Concrete testing
16	New standard		1		Mortar test
17	Concrete forming vibration table	Vibration frequency 2860times/min, amplitude 0.3- 0.6mm	1		Mortar test
18	Vebe consistometer		1		Mortar test
19	Mortar consistometer		5		Mortar test
20	Mortar layering apparatus		5		Mortar test
21	Sand water content rate tester		1		Dinas test
22	Concrete penetration testing apparatus	100mm ² ,50 mm ² ,20 mm ² accuracy 5N, test needle circle area 100mm ² ,50 mm ² ,20 mm ²	1		Concrete testing
23	Improved air content testing apparatus	for aggregate dia. less than 40mm, air content less than 10%, and the concrete mixture has	1		Dinas test
24	Water cement ratio tester		2		Concrete testing

25	Unit weight	1 ~ 50L(9pc) 1 ~ 10L	1 4		Sand test
26	Slump cone test set	100*200*300	6		Concrete testing
27	Sand funnel		5		Sand test
28	2.5KW Electric heating blowing dry cabinet	Digital display 400*450*450	2		General
29	Concrete protection layer testing layer	Steel bar application range: $\phi 6 \sim 50\text{mm}$ Insulation thickness range : 0 ~ 100mm $\phi 6\text{mm} \sim \phi 12\text{mm}$ 0mm ~ 70mm $\phi 13\text{mm} \sim \phi 20\text{mm}$	1		concrete testing and NDT
30	Concrete resilience modulus testing apparatus	0mm ~ 80mm $\phi 21\text{mm} \sim \phi 50\text{mm}$ accuracy : 0-39mm error $< \pm 1\text{mm}$ 40 - 69mm error $< \pm 2\text{mm}$ 70 - 100mm, Error $< \pm 5\text{mm}$	2		Concrete testing
31	Concrete bending testing device	Equip UTM	1		Concrete testing
32	Sandstone balance	10kg/1g	5		General
33	Concrete mould	100 Cube	50		concrete testing
34	Concrete mould	100mm ³ , 3 gang	2		concrete testing
35	Concrete mould	150X150X150	30		concrete testing
36	Concrete resilience mould	150X150X300	12		concrete testing
37	Cement bending testing mould	40X40X160	16		Cement testing
38	Cement mortar mould	70.7X70.7X70.7	16		Mortar test
39	Concrete fracture mould	150X150X550	10		concrete testing
40	Concrete impervious mould	$\phi 175 \times 185 \times 150$	12		concrete testing
41	New standard square hole	$\phi 300$, $\phi 2.5 \sim \phi 100$	6		Sand test
42	New standard square hole	$\phi 300$, $\phi 0.16 \sim \phi 10$	6		Sand test
43	Cement sieve	$\phi 200$ 0.08~0.9	5		General
44	Negative pressure sieve	$\phi 0.08$	5		General
45	Multifunctional electric	STDT-2 (150kg)	1		General
46	Steel bar striking machine	Motorzied	2		Steel bar
47	Cold bending punch	$\phi 6 \sim 125$	1		Steel bar
48	Metal alternating bending machine	Equip the UTM	1		Steel bar
49	Platform scale	100kg	2		General
50	Tray balance	5kg/5g	3		General
51	Concrete impervious testing apparatus	Max working pressure 5Mpa; one time test specimen 1~6pcs; motor power 120w	1		concrete testing
52	Cement mortar permeability apparatus	80mm max working pressure 1.5Mpa; 12 moulds, upper open 70mm, lower open 80mm	1		Mortar test

53	Impervious extruder	Bias type	1		General
54	Full-automatic digital schmidt hammer	complies to JGJ/T 23- 2001	1		concrete testing and NDT
55	Normal schmidt hammer; another carbonization depth tester, testing Steel Anvil	complies to JGJ/T23-2001	5		concrete testing and NDT
56	Concrete core drilling machine	φ150, with bit	1		concrete testing and NDT
57	Concrete core drilling machine	φ100, with bit	1		concrete testing and NDT
58	Multifunctional strength tester	Max pullout force: 40KN, oil cylinder travel 10mm, resolution 0.001~0.01KN automatic switch, error <1.5%	1		concrete testing and NDT
59	Low temperature testing chamber	-40°C	1		concrete testing
60	9KW Electric heating drying oven	1000*800*800	1		General
61	Digital display compression testing machine	2000KN	1		General
62	Digital display compression testing machine	1000KN	1		General
63	High pressure electric pump	Adjustable flow, digital display of pressure, mobile car equipped	1		General
64	High pressure electric pump	Adjustable flow, digital display of pressure, mobile car equipped	1		General
65	Anchor bolt tensiometer	With manual oil pump, 10 Ton jack, 5m oil pipe	3		General
66	Anchor bolt tensiometer	With manual oil pump, 30 Ton jack, 5m oil pipe	2		General
67	Jack	150 double oil way, with fix screw, travel	2		General
68	Jack	double oil way, base plate with fixing screw, travel 150mm	1		General
69	Jack	Center through, with anchor retreat device	2		General
70	Manual force falt car	600*400	2		General
71	Horizontal transportation car	1000*700	2		General
72	Manual pallet jack		1		General
73					
74	Motorzied tetragenous direct shear testing apparatus	Stepless speed-regulation	1		General
75	Electric resistance strain controlled testing assembly		3		General
76	Concrete ultrasonic tester	Rechargeable batteries: 12V/4Ah, 2pcs, one charger; 1 AC/DC power supply, plain transducer 2pcs, AC power cable 1 pc, serial port cable 1pc, signal cable 10m 2pcs, 4A disk, analysis software, impact thickness system	1		General
77	300KN Computerized electric hydraulic universal testing machine	300KN, accuracy of 1%, normal mechanical clamp	1		General
78	Computerized automatic cement compression testing machine	200KN, accuracy of 1%	1		General

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