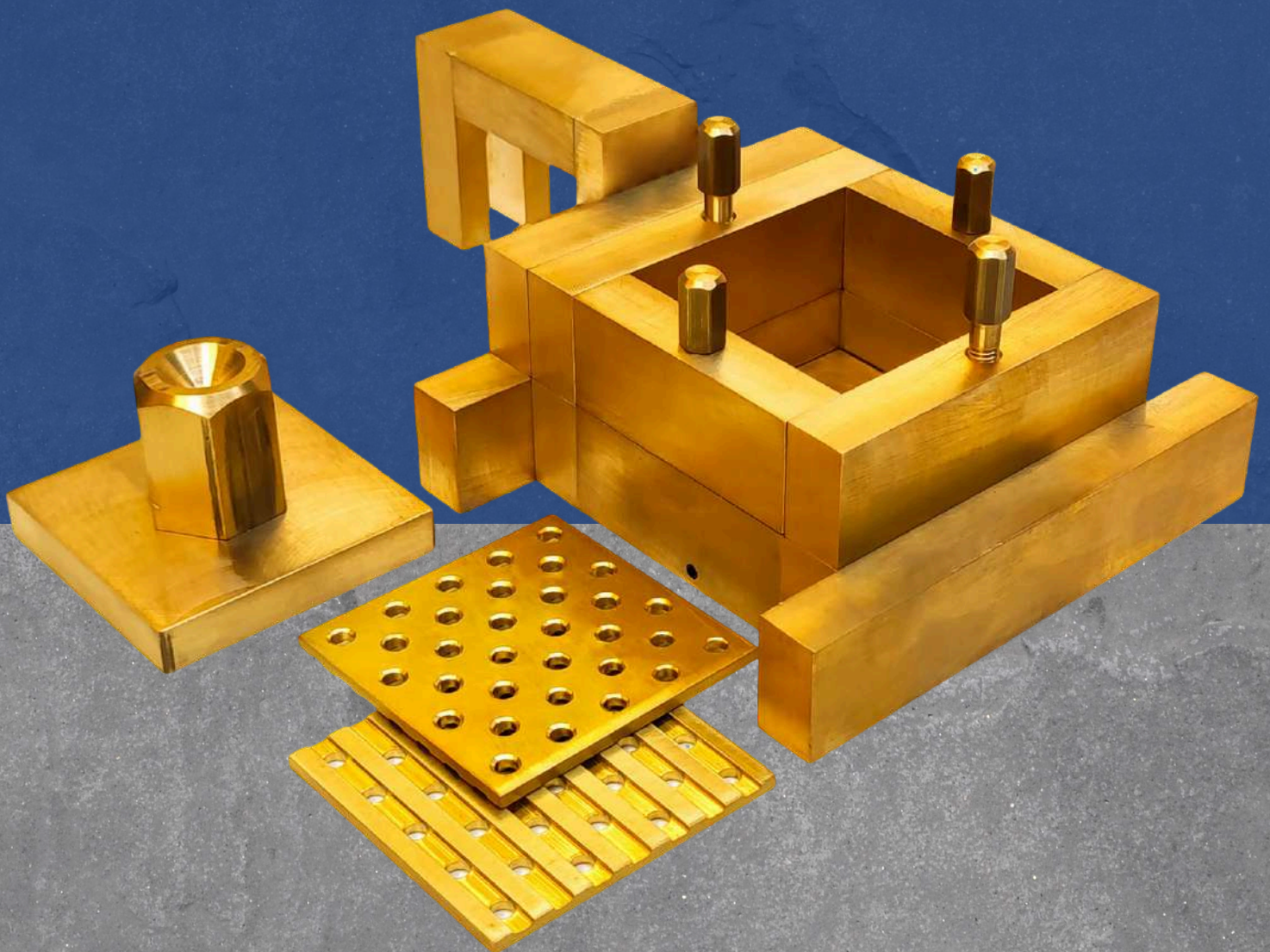


## PEY KHAK SANG INDUSTRIAL GROUP

Production and Import of Soil and Concrete Laboratory Equipment









For years, we have been working as a geotechnical and material resistance consultant with grade A rating from the Planning and Budget Organization. However, for several years now, based on the experience of those years, to fill the gap in the production of equipment by specialists in this field, we have turned to producing soil and concrete laboratory equipment. We have tried to be more than just a manufacturer of devices needed by young engineers; we strive to be their advisors and eagerly share everything we have experienced over the years with our young colleagues, helping to make their work path simpler, more scientific, and more cost-effective.



We manufacture all soil and concrete laboratory equipment in sufficient quantities to ensure that immediate delivery is always available for purchased devices.



If you need to upgrade your purchased device, we will buy your old device at the current price and deliver the new device to you under the best payment conditions.



The purchase conditions for equipment from this company are tailored to your needs. Therefore, you can always purchase the equipment you need based on your financial capabilities.

# Advantages of purchasing from Pey Khak Sang:



# Soil







### COMPLETE SET OF 8-INCH ATLAS SIEVES

Standards: ASTM-E11, ISO-3310

Material: Stainless Steel frame and mesh

Number of sieves: 15 pieces (8 inches)

Sieve mesh sizes:  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1, 1.5 inches and 200, 100, 50, 40, 30, 16 mesh 4, 8, 10

Included: Sieve lid and pan

Warranty: One year

Delivery time: Immediate

### ATLAS 200 WET WASHING SIEVE

Standards: ASTM-E11, ISO-3310

Material: Stainless Steel frame and mesh

Number of sieves: 15 pieces (8 inches)

Sieve mesh sizes:  $\frac{3}{8}$ ,  $\frac{1}{2}$ ,  $\frac{3}{4}$ , 1, 1.5 inches and 200, 100, 50, 40, 30, 16, 10, 8, 4 mesh

Included: Sieve lid and pan

Warranty: One year

Delivery time: Immediate

### ELECTRIC SIEVE SHAKER

Standards: ASTM C286 -99, ASTM

D422, ASTM C136,

AASHTO T27, ISIRI 1599, ISIRI 4977

Description: Used for shaking containers containing laboratory soils and is used for grading soil and aggregates. Suitable for 8-inch and 12-inch sieves. Equipped with a timer. Has reciprocal sieve motion (left and right). Single-phase electric power, automatic timer, electrostatic paint.

Warranty: One year

Delivery time: Immediate







### MANUAL CASAGRANDE

STANDARDS: ASTM D4318, AASHTO T89, BS 1377, ISIRI 10731

Description: Used to determine the liquid limit of soil.

Base material: Standard Bakelite

Material of base parts: Brass

Material of bowl, grooving tools, and calibration cube: Brass

Includes:

Brass grooving tool (hook type)

Brass flat grooving tool

Brass calibration cube

Strike counter

In the production of all parts, CNC machining has been used to not only ensure the beauty but also the highest possible precision of the device.

Warranty: One year

Delivery time: Immediate

### 55-Liter Shimaz Laboratory Oven

Material: Stainless steel chamber

Internal dimensions: 45×31×37 cm

External dimensions: 72×45×50 cm

Temperature range: 50-200 °C

Controllable temperature range: 70-200 °C

Temperature accuracy within standard range:  $\pm 2$  °C

Timer: Digital, 1 to 990 minutes or continuous operation

Thermostat: Digital PID controller

Thermometer: Digital display with PT 100 sensor

Voltage: 220 volts

Power: 1000 watts

Calibration capability: Auto-calibration

Approximate weight with packaging: 25 kg

Body material: Iron sheet with electrostatic paint coating

Internal chamber material: Aluminum

Number of trays: 2

Central fault diagnosis system: Available

Programmer: Available

Steam exhaust vent: Available

Fan: Not available

Warranty: One year

Delivery time: Immediate





## Manual Compressive Strength Machine

Standards: ASTM D2166, AASHTO T208, BS 1377

Description: This machine is used to determine the unconfined compressive strength of cohesive soils.

Color: Resistant baked paint

Ring force capacity: 500 kg (5 kN)

Accuracy: 2 grams (2.5 N)

Applicable for testing samples with diameters of 38, 50, and 75 mm

Includes:

- 2 indicator clocks with an accuracy of 0.01 mm and a stroke of 10 mm
- Indicator gauge for recording vertical changes with a stroke of 10 mm and an accuracy of 0.01 mm
- Speed adjustment: Manual

Warranty: One year

Delivery time: Immediate

## Direct Shear test machine 10×10

Standards: ASTM D3080, BS 1377-7, ISIRI 18652

Description: Used to determine the shear strength parameters of fine-grained and sandy soils (including the internal friction angle and soil cohesion coefficient).

Box size: 100×100 or 60×60 mm

Capacity: 500 kg (5 kN) with load cell

Accuracy: 100 grams (1 N)

Speed adjustment range: 0.01 mm to 50 mm per minute

Display: Digital

Motor: Servo motor

Horizontal gauge stroke: 30 mm

Horizontal gauge accuracy: 0.01 mm

Vertical gauge stroke: 10 mm

Vertical gauge accuracy: 0.01 mm \*\*Equipped with microswitch to limit horizontal box movement

Accessories:

- 37 kg weights (2×10 kg + 2×5 kg + 2×2 kg + 3×1 kg)
- 100×100 mm box
- Porous plates for top and bottom of the sample
- Shear cutter 10×10 cm
- Shear cutter: 10×10 cm

Warranty: One year

Delivery time: Immediate







## ALUMINUM CONSOLIDATION TEST APPARATUS

Standards: ASTM D2435, ASTM D 4546, BS 1377-5, AASHTO T216

Description: Used to determine the consolidation parameters of fine-grained soils under lateral confinement and controlled stress conditions.

Material: Cast aluminum

Accessories:

- 32 kg weights (3×2 kg + 1×1 kg + 5×5 kg)
- Two porous stones (50 and 60 mm)
- Indicator clock with 0.01 mm accuracy and 10 mm stroke

Cell material: Brass, machined with CNC

Includes: dial Indicator with a stroke of 10 mm and 0.01 mm accuracy

Plexiglass cell diameter: 120 mm outside, 110 mm inside

Additional Information: The brass cell is fully CNC machined from a brass ingot with a transparent Plexiglass chamber. According to the standard, the accuracy of the indicator clock is 0.0025 mm, which can be provided as a more precise digital gauge with an accuracy of 0.001 mm upon customer request.

Warranty: One year

Delivery time: Immediate

## DIRECT SHEAR TEST MACHINE 30×30

Standards: ASTM D3080, BS 1377-7

Description: Used to determine the shear strength parameters of coarse-grained soils.

Box size: 30×30 cm

Load cell capacity: 3000 or 5000 kg (3 or 5 kN)

\*Equipped with micro switch to limit horizontal box movement

Speed adjustment range: 0.01 to 9.9 mm per minute

Motor: Servo motor

Display: Servo motor digital display

Includes:

- 2 indicator clocks with a stroke of 30 mm and an accuracy of 0.01 mm with clock base

Warranty: One year

Delivery time: Immediate







### Pycnometer bottle

Standards: ASTM D854, AASHTO T100, EN 1097, ISIRI 4980

Description: Used to determine the specific gravity of aggregates.

Material of lid: Aluminum sheet

Material of body: Glass with O-ring for complete sealing

Capacity: 1000 cc

Warranty: One year

Delivery time: Immediate



### Glass Mixing Cylinder 1000 cc

With lip and without lip

Description: Used for conducting soil hydrometer tests.

Material: Glass Capacity: 1000 cc

Accessories: Rubber stopper

Warranty: One year

Delivery time: Immediate



### Soil Hydrometer Type 152H

Standards: ASTM 422

Manufacturer: Germany

Warranty: One year

Delivery time: Immediate



### Moisture Content tins

Standards: ASTM D854, AASHTO T100, EN 1097, ISIRI 4980

Description: Used for determining the moisture content of soil and rock samples.

Container Specifications: Aluminum and galvanized sampling container with lid and body dimensions of 85 mm.

Delivery time: Immediate



### Sodium Hexametaphosphate Powder

Description: Used in hydrometer tests for separating soil particles.

Packaging weight: 1 kilogram

Delivery time: Immediate



### Disturbed Soil Samplers

Description: Used for soil sampling  
 Material: Aluminum  
 Diameter: 38 mm / 50 mm  
 Warranty: One year  
 Delivery time: Immediate



### Undisturbed Soil Sampler

Description: Used for obtaining undisturbed soil samples  
 Material: Brass Diameter: 38 mm / 50 mm  
 Warranty: One year  
 Delivery time: Immediate



### Direct shear Test Apparatus Box

Material: brass  
 Size: 60\*60  
 Warranty: one year  
 Delivery time: immediate



### Direct shear Test Apparatus Box

Material: brass  
 Size: 10\*10  
 Warranty: one year  
 Delivery time: immediate



### Earth Resistance Tester

Standards: ASTM G57  
 Device Description: This device is used to determine the electrical resistivity of soil on-site and at project locations.  
 -Includes wires or cables and metal electrodes.  
 Warranty: One year  
 Delivery time: Immediate







### Soil Dispersion Mixer (Workshop)

Standards: ASTM 422

Description: This device is used for mixing soils passing through the No. 200 sieve for hydrometer testing.

Body Material: Aluminum

Beaker Material: Aluminum

Warranty: 1 year

Delivery Time: Immediate

### Soil Dispersion Mixer

Standards: ASTM 422

-Imported

Description: This device is used for mixing soils passing through sieve #200 for hydrometer testing.

Material: Stainless steel

Beaker Material: Stainless steel

Motor speed: 10,000 to 14,000 RPM (dual speed)

Warranty: One year

Delivery time: Immediate



### SHRINKAGE LIMIT TEST OF SOIL Equipment

Standards: ASTM 4318

Description: Determination of the liquid limit of soil.

Moisture Cans: Stainless steel, diameter 55 mm

Tools: Stainless steel

Cup Plate: Porcelain, with a glass plate measuring 40 × 40 cm and 6 mm thickness

Warranty: 1 year







### Manual CBR Machine

Standards: ASTM D4429, BS 1377-4, AASHTO T193, ISIRI 1159

Device Description:

To determine the bearing capacity of the soil foundation and all pavement layers.

Ring Material: Made of spring material to withstand pressure.

Ring Force Capacity: 3,000 Newtons (3 kiloNewtons).

Features:

- Includes two dial indicators with a stroke of 10 mm and an accuracy of 0.01 mm.
- One dial indicator is used to measure force, and the other is used to measure vertical displacement.

Warranty: One year

Delivery Time: Immediate

### sand density cone apparatus

Standards: BS 1377, 192, ASTM D1556

Description: Used for determining soil density in situ using the sand cone method.

Material: Cast aluminum

Sizes: 4 inches and 6 inches

Accessories: Tray and cone

Warranty: 1 year

Delivery Time: Immediate



### Complete CBR Accessories

Standards: BS 1377-U, AASHTO 4429

Description: Auxiliary equipment for CBR testing.

These accessories include:

- CBR Mold: Made of galvanized iron, 6 mm thick.
- Dial Indicator: 1 cm travel with 0.01 mm accuracy.
- Three-legged swell tripod
- 5-pound cutting weight
- 10-pound weight
- Filling plate
- Perforated plate
- Plastic bucket for sample saturation (upon request)

Delivery Time: Immediate





### Proctor Mold and Hammer

Standards: ASTM D558, D559, D560, D698, AASHTO T99, T134, T135, T136, T180

Description: Used to determine the maximum dry density and corresponding optimum moisture of soil.

Mold Material: Galvanized iron

Sizes: 4 inches and 6 inches

Warranty: 1 year

Delivery Time: Immediate



### Concrete Curing Tank

Description: This tank is used for placing and curing concrete specimens in water.

Volume: 500 liters

Material: Triple-layer PVC

Features: Includes a drain valve

Warranty: 1 year

Delivery Time: Immediate



### Concrete Curing Tank

Description: This tank is used for placing and curing concrete specimens in water.

Volume: 1000 liters

Material: Triple-layer PVC

Features: Includes a drain valve

Warranty: 1 year

Delivery Time: Immediate



### Analog Triaxial shear test apparatus with accessories for uu test

Standards: ASTM D2850, D4767, BS :استانداردها  
EN1377-8, AASHTO T296 T297

Description: Used for determining the mechanical properties of fine-grained soils.

System Type: Analog

Compressor: 25-liter capacity, capable of 8 bar pressure

Frame Material: Aluminum with transparent Plexiglas

Ring Force Capacity: 500 kilograms

Includes: 2 dial indicators with 10 mm travel and 0.01 mm accuracy (for force and displacement), water reservoir, untouched sample collector, sample cutter, and membrane former for diameters of 38 or 50 mm

Loading Rate: 1.27 mm per minute

Warranty: 1 year

Delivery Time: Immediate



### Digital Triaxial shear test apparatus with accessories for uu test

Standards: ASTM D2850, D4767, BS  
EN1377-7,-8, AASHTO T296 T297

Description: This machine is used for determining the strength parameters of fine-grained soils.

Load Cell Capacity: 500 kilograms

Accuracy: 100 grams

System Type: Digital

Loading Rate: Uniform, from 0.01 to 9.9 mm per minute in digital mode

Compressor: 25-liter capacity, capable of 8 bar pressure

Accessories and Additional Equipment: 2 dial indicators with 10 mm travel and 0.01 mm accuracy, 1 water reservoir, untouched sample collector, sample cutter, and membrane former for diameters of 38 or 50 mm

Warranty: 1 year

Delivery Time: Immediate





## Falling head permeability apparatus

Standards: BS 1374-5, ISIR 14420

Description: Used to determine the permeability of fine-grained soils.

Includes: 4-inch aluminum permeability mold

Material: Aluminum

Glass Tubes: Pyrex

Water Reservoir: Included

Permeability Cell: Included, with spring and porous plates

Additional Equipment: Includes hose and fittings

Warranty: 1 year

Delivery Time: Immediate



## Constant Head Apparatus

Standards: ASTM D2423, AASHTO T215

Description: This equipment is used to determine the permeability of coarse-grained soils.

Includes: Pyrex glass tubes

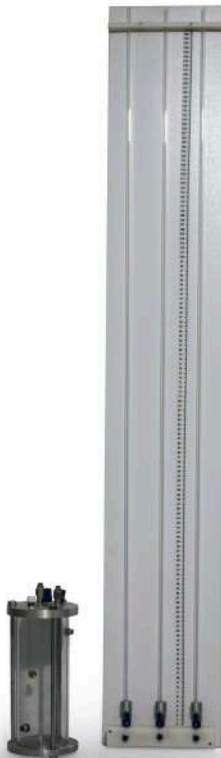
Water Reservoir: Included

Permeability Cell: Included, with spring and porous plates

Additional Equipment: Includes hose and fittings

Warranty: 1 year

Delivery Time: Immediate





## SPT Hammer

Standards: ASTM D1586, DIN 4094, ISIRI 8446

Description: Used for assessing the in-situ density conditions of soil mass.

Penetration Cone Material: Hardened steel 45CK

Hammer Length (including drive rod): 145 centimeters

Drop Weight: 10 kilograms

Fall Height: 50 centimeters

Warranty: 1 year

Delivery Time: Immediate



## Complete Plate Load Test Equipment

Standards: ASTM D1194, D1195, D1196, BS 1377

Description: This equipment is used to determine the elasticity modulus and response of foundation beds and road pavements.

Plate Material: Machined iron

Plate Diameters: 200 mm, 300 mm, 450 mm

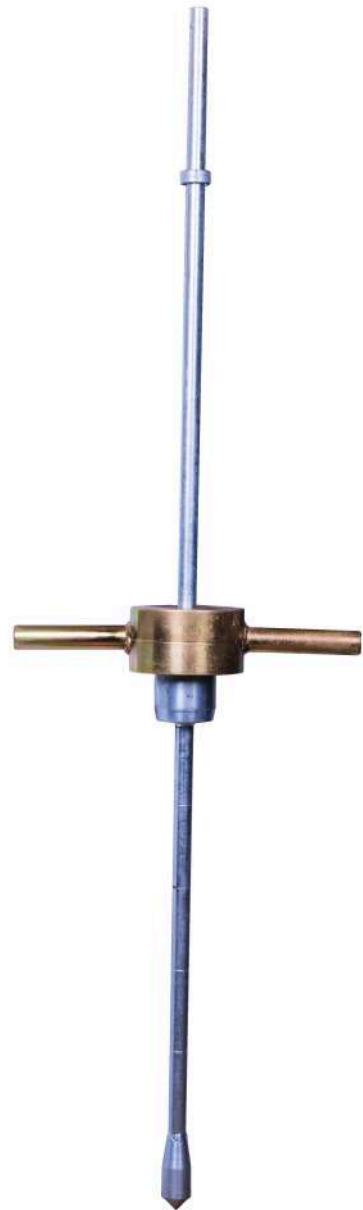
Jack Capacity: 30 tons

Accessories:

- 3 gauge holding bases
- 3 loading plates
- 3 dial indicators with 10 mm travel and 0.01 mm accuracy

Warranty: 1 year

Delivery Time: Immediate





# Concrete





## 200 Ton Digital Concrete Compression Machine

Standards: ASTM C39, EN 12390, AASHTO T22

Description: This machine is used for determining the compressive strength of hardened cylindrical and cubic concrete samples.

System: Digital with computer connectivity

Manual Loading Speed Adjustment

Single-phase 1 HP electric motor, 1400 RPM

Crushed piston made of hardened steel 45CK with HRC60 hardness

Equipped with 700 bar pressure transducer

German hydraulic pump with displacement

control micro switch for automatic turn off display included

Warranty: 1 year

Delivery Time: Immediate



### Cylindr Mold 15\*30 cm

Standards: ASTM C39, EN AASHTO T126 ,12390-1

Size: 30\*15 centimeters

Description: For sampling fresh concrete.

Material: Grade 1 ABS

Dimensions: 30\*15 centimeters

Number of Pieces: 2 pieces

Features: Equipped with hand tighten screws and strong mesh reinforcement to prevent mold deformation.

Warranty: 1 year

Delivery Time: Immediate



### Concrete Cube Mold 15\*15\*15 cm

Standards: ISIRI 1608-1

Size: 15\*15\*15 centimeters

Description: Used for sampling fresh concrete.

Material: Fiber-reinforced polyamide

Number of Pieces: Two pieces

Weight: Approximately 1280 grams

Additional Details: Strong mesh reinforcement to prevent deformation of the mold. Includes doll screws to facilitate opening and closing of the mold.

Warranty: 1 year

Delivery Time: Immediate



### Concrete Cube Mold 15\*15\*15 cm

Standards: ISIRI 1608-1

Standards: ISIRI 1608-1

Size: 15\*15\*15 centimeters

Description: Used for sampling fresh concrete.

Material: Grade 1 injection-molded UPVC

Internal Size: 15\*15\*15 centimeters

Number of Pieces: One piece

Weight: 2250 grams

Additional Details: Strong mesh reinforcement to prevent deformation and damage to the mold.

Warranty: 1 year

Delivery Time: Immediate



### Concrete Cube Mold 15\*15\*15 cm

Standards: ISIRI 1608-1

Size: 15\*15\*15 centimeters

Description: Used for sampling fresh concrete.

Material: Grade 1 injection-molded ABS

Internal Size: 15\*15\*15 centimeters

Number of Pieces: One piece

Weight: Approximately 980 grams

Additional Details: Strong mesh reinforcement to prevent deformation and damage to the mold.

Warranty: 1 year

Delivery Time: Immediate





### slump cone set

Standards: ASTM C143, AASHTO T119, BSEM 1235

Description: Used to determine the consistency of concrete. This set includes the following components:

- Metal tray and funnel (Slump cone) manufactured with standard sheet metal
- Tamping rod (Slump rod) made of galvanized steel
- Tamping base (Slump base) made of galvanized steel
- Steel ruler (30 cm long)

Warranty: 1 year

Delivery Time: Immediate

### Cube Mold Tamping Rod Rammer

Standards: ASTM C51, AASHTO T32, EN 12390-1,13390-2, ISIRI 1608-2

Description: The concrete rammer is used for standard compaction of concrete inside cube molds according to specified standards. It is calibrated and weighs 1810 grams.

Color: Electrostatic oven-baked

Warranty: 1 year

Delivery Time: Immediate



### Concrete Core Drilling Machine 2300 Watts

Standard: ASTM D1754

Device Description: Used for coring hardened concrete.

Motor: Single-phase with 2300 watts

Base: Fixed base

Warranty: 1 year

Delivery Time: Immediate

### Concrete Core Drilling Machine 5100 Watts

Device Description: Used for coring hardened concrete.

Brand: LG

Features: Movable base with angle adjustment

Accessories: Drill bits available in 3-inch and 4-inch sizes

Motor: Single-phase

Motor Power: 5100 watts

Base: Rotating base for sampling at various angles

Warranty: 1 year

Delivery Time: Immediate



### Concrete Core Drill Bit

Description: Used for coring hardened concrete.

Sizes: 3 inches, 4 inches

Warranty: 1 year

Delivery Time: Immediate







### Schmidt Hammer

Standards: ASTM C805, EN 12504-2

Device Description: The Schmidt Hammer is used for determining compressive strength by non-destructive testing of concrete structures and stones.

Country of Manufacture: China (Grade 1)

Display System: Analog

Body Material: Metal

Includes: Sandstone, labeled graph for easy and accurate determination of concrete strength, two screwdrivers, two spare springs, and a durable case for protecting the hammer.

Warranty: 1 year

Delivery Time: Immediate



### Concrete Vibrating Table

Standards: AASHTO C192, ASTM C31

Description: This table is used for compacting concrete during construction in the laboratory.

Material: Iron with electrostatic paint

Table Dimensions: 70×70 centimeters

Motor Power: 3000 RPM

Warranty: 1 year

Delivery Time: Immediate



### Compressometer Static Modulus of Elasticity

Standards: ASTM C469 BS  
ISIRI 526 ISIRI 1881121  
3201-10

Device Description: Measures vertical strain as a function of longitudinal compressive stress.

Material: Aluminum body, chrome-plated iron columns.

Size: Suitable for standard samples of 20×10 and 30×15 and other sizes from 2=B/H up to diameter 15 centimeters.

Includes: One indicator clock with a 10-millimeter course and 0.01 precision.

Warranty: One year.

Delivery Time: Immediate



### Splitting Tensile Test (Brazilian Test)

Standards: ASTM C496,  
AASHTO T198, BS EN 2390-5,  
ISIRI 6047

Description: Used to determine the tensile strength using the Brazilian test method on cylindrical concrete specimens.

Material: Chromium-plated steel plate with a thickness of 20 mm.

Size: 6 inches with dimensions of 15 × 30 cm.

Warranty: 1 year.

Delivery time: Immediate



### Capping Compound

Description: Used for leveling the top surfaces of cylindrical concrete specimens.

Weight: 1 kilogram

Delivery Time: Immediate



### Concrete Capping Mold 6 Inches

Standards: ASTM C617,  
ASSHTO T231, ISIRI 13584,  
EN 12390-3

Description: Used for squaring the ends of cylindrical concrete samples relative to the body.

Material: Galvanized iron

Sizes: 4 inches and 6 inches

Includes: 1 kilogram of sulfur capping compound

Warranty: 1 year

Delivery Time: Immediate



## Air Entrainment Meter

Standards: ASTM C231, AASHTO T152, C173, EN ISIRI 3520 ,12350-7

Description: This device is used to determine the air content in fresh concrete based on volume change under pressure.

Material of Container: Rolled steel sheet.

Material of Lid: CNC-machined aluminum alloy to ensure standard production of device lid and increase resistance to expansion and pressure.

Body Color: Electrostatic.

Container Capacity: 6 liters.

Features:

- Manual pump with standard compression rod.
- Calibration stainless steel container with special spring equipped with 2.5 pressure density gauge (calibrator).
- Outlet valve.
- Equipped with a manometer to display air pressure levels.

Warranty: One year.

Delivery Time: Immediate.



## Concrete Curing Tank

Description: This tank is used for placing and storing concrete specimens in water.

Sizes Available: 500 liters and 1000 liters

Material: Triple-layer PVC

Features: Equipped with a drain valve

Warranty: One year

Delivery Time: Immediate



## Bulk Density Measure

Standards: ASTM C128, AASHTO T84, ISIRI 4980

Description: Used for determining the weight specific gravity of fresh concrete aggregates.

Material: Steel

Volume: 7 liters

Warranty: One year

Delivery Time: Immediate





### Specific Gravity Frame

Standards: ASTM C127, AASHTO T85, EN 12390-7, BS 812-2, 1881-14, ISIRI 4982

Description: Used to determine the specific weight of construction materials, aggregates, and hardened concrete samples.

- Table Dimensions: 45×45 cm
- Table Material: Iron with furnace enamel finish
- Includes: Special basket for cubic and conical samples, and a plastic water bucket
- Delivery Time: Immediate
- Warranty: One year

### Electrical Sieve Shaker

Standards: ASTM C286 -99, ASTM D422, ASTM C136, AASHTO T27, ISIRI 1599, ISIRI 4977

Description: This electric sieve shaker is used to vibrate laboratory sieves containing soil and aggregate samples. It is suitable for particle size analysis of soil and aggregates. Suitable for Sieves: 8 inches and 12 inches

Features:

- Equipped with a timer
- Reciprocating motion (left and right)
- Single-phase electric power supply
- Automatic timer control
- Electrostatic paint finish

Warranty: One year

Delivery Time: Immediate



### Complete Atlas Sieve Set, 8-inch

Standards: ASTM-E11, ISO-3310

Frame and Mesh Material: Stainless Steel

Number of Sieves: 15 pieces (8 inches)

Mesh Sizes: 3/8, 1/2, 3/4, 1, 1.5 inches, and 200, 100, 50, 40, 30, 16, 10, 8, 4 microns

Includes: Sieve cover and sieve pan

Warranty: One year

Delivery Time: Immediate

### Moisture Content tins

Standard: ASTM D2216

Description: Used for determining the moisture content of soil and rock samples.

Specifications:

- Sample can with lid and aluminum body, 85 mm

Delivery Time: Immediate







## 200-Liter Oven

Temperature Range: 50-200 degrees Celsius  
 Controlled Temperature Range: 70-200 degrees Celsius  
 Temperature Accuracy:  $\pm 2$  degrees Celsius  
 External Dimensions: 74×63×110 cm (width×depth×height)  
 Internal Dimensions: 59×48×77 cm (width×depth×height)  
 Timer: Digital, 1 to 990 minutes, or continuous operation (OFF TIME)  
 Thermostat: PID digital controller  
 Thermometer (Temperature Display): Digital with 100 PT sensor  
 Fan: 2400 RPM copper fan  
 Voltage: 220 volts  
 Power: 1800 to 2000 watts  
 Calibration Capability: Auto-calibration  
 Approximate Weight with Packaging: 70 kilograms  
 Warranty: 1 year  
 Delivery Time: Immediate



## 110-Liter Oven

Material: Stainless steel chamber  
 Internal Dimensions: 48×40×53 cm (width×depth×height)  
 External Dimensions: 61×54×85 cm (width×depth×height)  
 Temperature Range: 50-200 degrees Celsius  
 Controlled Temperature Range: 70-200 degrees Celsius  
 Temperature Accuracy within Standard Range:  $\pm 2$  degrees Celsius  
 Timer: Digital, 1 to 990 minutes, or continuous operation (OFF TIME)  
 Thermostat: PID digital controller  
 Thermometer (Temperature Display): Digital with 100 PT sensor  
 Voltage: 220 volts  
 Power: 1000 watts  
 Calibration Capability: Auto-calibration  
 Approximate Weight with Packaging: 50 kilograms  
 Body Material: Iron sheet with electrostatic coating  
 Inner Chamber Material: Aluminum  
 Number of Trays: 2  
 Central Fault Finder: Yes  
 Programmer: Yes  
 Steam Exhaust Valve: Yes  
 Fan: Not included  
 Warranty: 1 year  
 Delivery Time: Immediate



## 55-Liter Oven

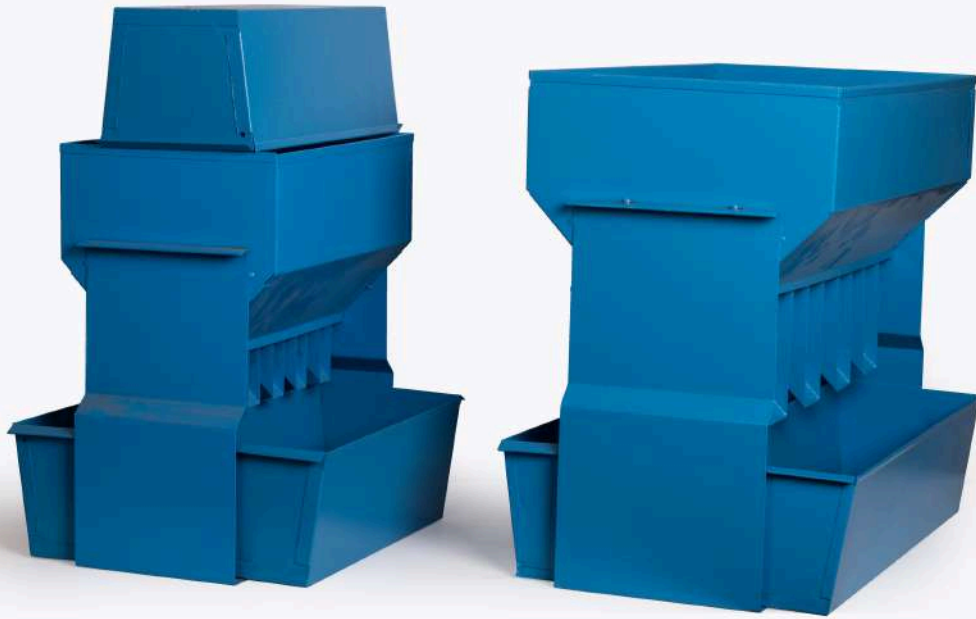
Temperature Range: 50-200 degrees Celsius  
 Controlled Temperature Range: 70-200 degrees Celsius  
 Temperature Accuracy within Standard Range:  $\pm 2$  degrees Celsius  
 External Dimensions: 62×45×73 cm (width×depth×height)  
 Internal Dimensions: 47×31×44 cm (width×depth×height)  
 Timer: Digital, 1 to 990 minutes, or continuous operation (OFF TIME)  
 Thermostat: PID digital controller  
 Thermometer (Temperature Display): Digital with sensor  
 Fan: 2400 RPM copper fan  
 Voltage: 220 volts  
 Power: 1000 watts  
 Calibration Capability: Auto-calibration  
 Approximate Weight with Packaging: 35 kilograms  
 Warranty: 1 year  
 Delivery Time: Immediate

## Concrete Mixer

Concrete Mixer Volume: 120 liters  
 Effective Loading Capacity: 90 liters  
 Drum Rotation Speed: 15 rotations per minute  
 Drive Mechanism: Electric motor  
 Material Loading Mechanism: Manual  
 Material Discharge Mechanism: Manual







### sample splitter 1 inch

Standards: ASTM C702, AASHTO T248, BS812, EN932-2, ISIRI 7146

Standards: ASTM C702, AASHTO T248, BS812, EN932-2, ISIRI 7146

Description: Used for initial division of materials such as aggregates, sand, and gravel.

Size: 1 inch

Color: Electrostatic

Features: Equipped with 3 trays for separation

Warranty: 1 year

Delivery Time: Immediate

### sample splitter 2 inch

Standards: ASTM C702, AASHTO T248, BS812, EN932-2, ISIRI 7146

Description: Used for dividing coarse aggregate samples and creating representative samples from them.

Material: Iron

Size: 2 inches

Color: Electrostatic

Features: Equipped with 3 trays for separation

Warranty: 1 year Delivery Time: Immediate

### Flakiness and Elongation Gauge

Standards: ASTM D4794, BS 812, EN ISIRI 11269 ,933-3

Existence of flakiness and venal elongation between aggregates have negative effects on durability and workability of concrete, therefore BS standard department suggests using flakiness & elongation gauge for determining flakiness & elongation factor for aggregates.

Flakiness gauge: for measuring amount aggregate's flakiness

Elongation gauge: for measuring amount of aggregate's elongation





### Sand equivalent test set

Standards: ASTM D2419, EN 933, AASHTO T176

Description: Used to determine the sand equivalent ratio of sand to fine aggregate in terms of percentage, or to determine the volume ratio of sand to clay in soil (sand, silt, and clay).

Specifications:

- Outer cylinder, 38 mm diameter
- Brass cover mold: 4 pieces, weight: 1000 grams
- Transparent plexiglass mold: 4 pieces with inner diameters of 32 mm, calibrated
- Cleaning rod or direct rod
- Stick rod
- Plastic container: 4-liter capacity
- Flexible silicone hose, 1 meter length
- Stainless steel measure, 850 cc capacity
- Plastic funnel
- Digital chronometer
- Distilled water
- Stock solution

Warranty: One year

Delivery time: Immediate



### Blaine Air Permeability Apparatus

Standards: ASTM C204, BS 435-2, EN 196-6, 459-2, 13286-44, AASHTO T153

Description: Used to determine the fineness of cement.

Equipment Details:

- Manometer: Glass U-tube with valve
- Brass perforated plate filter
- Stainless steel sieve
- Equipped with a mercury thermometer
- Includes colored liquid, powder, and flexible silicone hose
- Comes with an MDF carrying and storage box

Warranty: One year

Delivery time: Immediate



### Testing equipment for determining soft and loose and light particles

Standard: ASTM C330

Description: These tools are used to determine the amount of fine, soft, and lightweight particles present in aggregate materials used in concrete.

Specifications:

- Notebook Scale (Capacity: 2 kg, Accuracy: 0.1 g)
- Distilled Water: 1 liter
- Rosin Chloride: 100 grams
- Plastic Funnel: 500 ml
- Plastic Beaker: 500 ml
- Hydrometer (Measuring Range: 1000 – 2000)
- Smooth Paper

Delivery Time: Immediate







### Cement Mortar Mixer

Description: This device is used for mixing cement mortar.  
Capacity: 3 liters  
Material: Stainless steel chamber  
PCL or Controller: Yes  
Speed Control: Capability to select three speeds: fast, medium, and slow  
Warranty: One year  
Delivery Time: Immediate



### Compression Testing and Flexural Testing Device

Description: Used for testing the flexural and compressive strength of cement mortar.  
Material: Galvanized iron  
Features: Lightweight and portable  
Warranty: One year  
Delivery Time: Immediate



### Three gang prism mold (Cement Mold)

Standards: ASTM C109M, AASHTO C348  
Description: Used for sampling fresh cement mortar and determining the flexural strength of cement.  
Mold Material: Chrome-plated steel  
Dimensions: 16×4×4 cm  
Three compartments for simultaneous preparation of three samples  
Warranty: One year  
Delivery Time: Immediate



### Three gang cube mold

Standards: A ASTM C 109, C C 348, EN 12390-1, EN ,141 ISIRI 393 ,196-1

Description: This mold is used for sampling fresh cement mortar and determining its compressive strength.  
Material: Galvanized steel mold  
Features:  

- Three compartments
- Dimensions: 5×5×5 cm

Warranty: One year  
Delivery Time: Immediate



### two gang prism mold (Autoclave)

Standards: ASTM C490, ASTM C348, BSEN12617-4

Description: This mold is used for tests that measure the changes in dimensions of a cement mortar or concrete due to changes in moisture content.  
Dimensions: 25×25×28.5 cm  
Features:  

- Two compartments for preparing two samples simultaneously
- Made of galvanized iron

Warranty: One year  
Delivery Time: Immediate



### Vicat Apparatus

Standards: ASTM C 187, AASHTO T131, C191, EN 196:3, BS 4550

Description: Used to determine the setting time of cement and to determine normal consistency of cement.  
Body Material: Cast aluminum  
Base Material: Metal  
Mold Material: Teflon  
Includes:  

1. Glass plate measuring 10×10 cm
2. Needle assembly:
  - Initial needle made of steel with 1 mm diameter
  - Secondary needle with 10 mm diameter

Warranty: One year  
Delivery Time: Immediate



### Concrete Thermometer

Description: Used to measure the internal temperature of concrete.  
Manufacturer: China (Grade A)  
Temperature Range: -25 to +300 degrees Celsius  
Warranty: One year  
Delivery Time: Immediate



## Sand Absorption Cone and Tamper

Standards: ASTM C128, BS 812-109, ISIRI 4980

Description: This equipment is used to determine the surface moisture content of sand.

Material:

- Cone: Galvanized steel
- Tamper: Galvanized steel

Cone Dimensions:

- Upper diameter: 40 mm
- Height: 75 mm
- Lower diameter: 90 mm
- Wall thickness: 0.8 mm
- Weight: 80 grams

Warranty: One year

Delivery Time: Immediate



## Cement Autoclave

Description: The cement autoclave is used in laboratories for accelerated curing and achieving the required strength in concrete. It is also utilized in soil mechanics and geotechnical engineering laboratories for quality control of soils and related materials.

Specifications:

- Equipped with a standard safety valve
- Stainless steel discharge valve
- Pressure sensor
- Material of internal chamber: Stainless steel
- Capacity: 5-6 liters
- Autoclave dimensions: Height 40 cm, Diameter 16 cm
- Power consumption: 2000 watts, 220 volts single phase
- Operating pressure: 2 bar
- Current: 8 amps
- Warranty: One year
- Delivery: Immediate

## Los Angeles Abrasion Machine

Standards: ASTM C131, C535, EN 1097-2, ISIRI 448,8447

Description: The Los Angeles abrasion machine is used to determine the resistance of aggregates to abrasion.

Specifications:

- Body material: Welded steel with electrostatic coating
- Metal cylinder: Length 508 mm, Diameter 711 mm
- Thickness of metal cylinder sheet: 10 mm
- Single-phase motor (220 volts)
- Includes 12 metal spheres approximately 47 mm in diameter and weighing approximately 390 to 447 grams each, totaling around 5 kilograms
- Equipped with a counter to display the machine's revolutions

Warranty: One year

Delivery: Immediate





# General Equipment







### Digital Scale 30 KG Capacity

Capacity: 30 kilograms  
Accuracy: 1 grams  
Country of manufacture: China  
Warranty: One year  
Delivery time: Immediate



### Digital Scale 3 KG Capacity

Capacity: 3 kilograms  
Accuracy: 0.1 grams  
Country of manufacture: China  
Warranty: One year  
Delivery time: Immediate



### Digital Scale 2 KG Capacity

Capacity: 2 kilograms  
Accuracy: 0.1 grams  
Country of manufacture: China  
Warranty: One year  
Delivery time: Immediate



### Digital Scale 1 KG Capacity

Specifications:  
Capacity: 1 kilogram  
Accuracy: 0.01 gram  
Country of manufacture: China  
Warranty: One year  
Delivery: Immediate



### Elastic Rubber Hammer

Weight: Made from special elastic material in two types: soft (SHORE 60) and hard (90 SHORE).  
Standard: 11908  
Handle: Wooden grip



### soil scoop

Purpose: Used for sampling laboratory specimens.  
Material: Aluminum or stainless steel.



### Graduated Glass Beaker

Volume: 250 milliliters, 500 milliliters, 1000 milliliters  
Brand: SCHOTT DURAN  
Country of Origin: Germany  
Body Material: Borosilicate Glass, Pyrex  
Cap Material: PP (Polypropylene)  
Body Color: White, Transparent  
Autoclavable



### Digital dial indicator

Dimensions: 5×5×10 centimeters  
Weight: 200 grams  
Measurement Range: 0 to 12.7 millimeters  
Measurement Accuracy: 0.001 millimeters  
Warranty: One year  
Back cover plate included  
Immediate delivery





### Glass Graduated Cylinder

Capacity: 25 ml, 50 ml,  
100 ml, 250 ml, 500 ml,  
1000 ml  
Delivery Time:  
Immediate



### Plastic Graduated Cylinder

Capacity: 25 ml, 50 ml, 100  
ml, 250 ml, 500 ml, 1000 ml  
Material: Polypropylene  
Autoclavable and Freezable  
Delivery Time: Immediate



### Magnetic Gauge Holder

includes one fixed and one  
adjustable stand for  
installing the dial indicator



### Scraper spatula, Narrow and Wide

Blade Material: Steel  
Handle Material: Wood



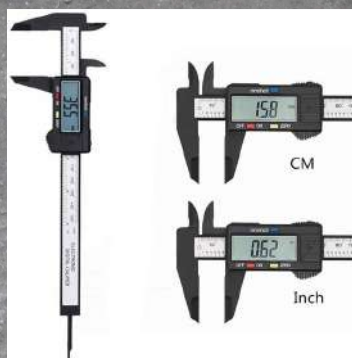
### Digital Thermometer and Hygrometer

Temperature Range: -30  
to +50 degrees Celsius  
Temperature  
Measurement Accuracy:  
±1 degree Celsius



### Digital Probe Thermometer

Display: Digital  
Measurement Range: -50 to  
+300 degrees Celsius  
Measurement Accuracy: 0.1  
degrees Celsius  
Features: Internal memory for  
temperature logging



### Digital Caliper

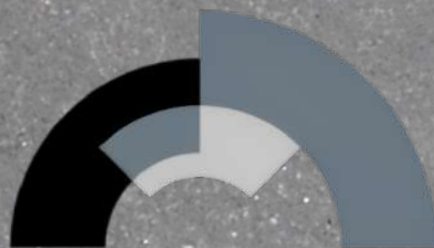
Type: Analog and digital  
Range: 0 - 150/200/300 mm



### Laboratory Erlenmeyer flask

Capacity: 100 ml 250  
ml 500 ml 1000 ml





**PEY KHAK SANG INDUSTRIAL GROUP**

Address: No.۹, sixth east alley, East Abuzar Blvd, Piroozi st. Tehran, Iran

+98 21 33 16 32 22    +98 21 33 07 60 61    [www.peykhaksang.com](http://www.peykhaksang.com)