



GENERAL EQUIPMENTS

To perform the different tests on all building materials: Aggregates, Cement, Concrete, Soil, Rock, Asphalt etc., very often, a vast range of General Laboratory Apparatus is required.

General equipment section offers a wide range of laboratory products and accessories that can be used to perform different tests. Some of this general equipment are used as a part of other testing devices.

CONTENTS

| | | | |
|---|-----|---|-----|
| BALANCES..... | 408 | Time Measurement & Calculation | 428 |
| MECHANICAL BALANCES | 408 | IP & ASTM THERMOMETERS..... | 428 |
| ELECTRONIC BALANCES | 409 | LABORATORY HARDWARE | 429 |
| MOISTURE ANALYSERS | 413 | Calipers..... | 429 |
| STANDARD CALIBRATION WEIGHTS | 415 | Gloves..... | 429 |
| LABORATORY GLASSWARE..... | 419 | Brushes | 429 |
| Glass Measuring Cylinders..... | 419 | Length Measurement | 430 |
| Glass Beakers | 419 | Mixing Bowls | 430 |
| Pyknometers (Specific Gravity Bottle, Gay Lussac Type)..... | 419 | Moisture Tins | 431 |
| Hubbard & Carmick Specific Gravity Bottle | 419 | Round Aluminum Scoops..... | 431 |
| Pyknometer (Bottle Type) | 420 | Rigid Spatulas | 431 |
| Conical Flasks, Erlenmeyer | 420 | Sample Bags | 431 |
| Filter Flasks for Vacuum Filtering..... | 420 | Flexible Spatulas | 431 |
| Volumetric Flasks..... | 420 | Mixing Pans | 432 |
| Graduated Impurities Test Bottles..... | 421 | General | 433 |
| Glass Funnels..... | 421 | COOKTOP STOVE..... | 435 |
| Imhoff Funnel..... | 421 | BUNSEN BURNER | 435 |
| Watch Glasses | 421 | VACUUM PUMPS | 436 |
| Petri Dishes..... | 421 | AIR COMPRESSORS | 437 |
| Weighing Bottles..... | 421 | pH METERS..... | 438 |
| Graduated Pipettes | 422 | DIGITAL LASER MEASURES | 439 |
| Burettes..... | 422 | DIAL GAUGES..... | 439 |
| Stirring Rods..... | 422 | LOAD RINGS..... | 440 |
| Desiccators..... | 422 | RAIN GAUGE (PLUVIOMETER)..... | 440 |
| Hydrometers..... | 423 | WATER STILL | 440 |
| Chapman Flask..... | 423 | CHEMICALS..... | 441 |
| PLASTIC LABORATORY PRODUCTS | 424 | WATER TEST KIT..... | 442 |
| Plastic Measuring Cylinders..... | 424 | HAMMER DRILL | 442 |
| Plastic Beakers | 424 | MOBILE DUST & EXTRACT SYSTEM..... | 443 |
| Plastic Volumetric Flasks | 424 | FUME HOOD..... | 443 |
| Plastic Funnels..... | 424 | LABORATORY STORAGE CABINET FOR CHEMICALS..... | 444 |
| Wash Bottles | 425 | MOBILE LABORATORY | 444 |
| Plastic Buckets | 425 | | |
| Sample Bags | 425 | | |
| Pipette & Pumps..... | 425 | | |
| PORCELAIN LABORATORY PRODUCTS | 426 | | |
| Porcelain Mortars with Pestle..... | 426 | | |
| Porcelain Evaporating Dishes..... | 426 | | |
| Porcelain Crucibles | 426 | | |
| Porcelain Buchner Funnels | 426 | | |
| TEMPERATURE & TIME MEASUREMENT..... | 427 | | |
| Digital Thermometers..... | 427 | | |
| Glass Thermometers..... | 427 | | |
| Mechanical Thermometers & Hygrometer & Barometer | 427 | | |

HİRA TESTING EQUIPMENT



BALANCES

MECHANICAL BALANCES

CENT-O-GRAM & DIAL-O-GRAM MECHANICAL BALANCES

OHAUS Cent-O-Gram and Dial-O-Gram Overhead Balances offer the accuracy and convenience of an integrated weigh below balance while allowing students to visualize mass measurement principles.

Designed with a hanging pan system, both balances offer 10 times the readability of the OHAUS Triple Beam and Dial-O-Gram top-loading balances.

- **Applications**
Weighing
- **Display**
Easy to-read deep-notched, tiered beams and dial plates
- **Operation**
N/A
- **Communication**
N/A
- **Construction**
Metal base and beam, stainless steel pan
- **Design Features**
Self-aligning beam design, magnetic damping to minimize oscillation and speed weighing, zero adjust compensator



HR-G8000



HR-G8005

Technical Specifications:

| Product Name | Cent-O-Gram Mechanical Balance | Dial-O-Gram Mechanical Balance |
|----------------------|---------------------------------|--------------------------------|
| Product Code | HR-G8000 | HR-G8005 |
| Maximum Capacity (g) | 311 | 310 |
| Readability (g) | 0,01 | 0,01 |
| Linearity (g) | ± 0.01 | |
| Beams | 4 Beams | 2 Beams with Dial |
| Pan Size | 0.5 in x 3.5 in (13 mm x 89 mm) | |
| Pan Type | Removable Pan | |
| Pan Construction | Stainless Steel | |
| Dimensions (mm) | 249 x 360 x 166 | |
| Net Weight (kg) | 1,6 | 1,4 |

TRIPLE BEAM MECHANICAL BALANCE

Accurate, dependable and truly the BEST IN CLASS; the OHAUS Triple Beam Pro offers the convenience of a top loading balance while allowing your students to gain the understanding of measurement garnered through hands-on activities.

- **Applications**
Weighing
- **Display**
Easy to-read deep-notched, tiered beams and dial plates
- **Operation**
N/A
- **Communication**
N/A
- **Construction**
Metal base and beam, stainless steel pan
- **Design Features**
Two notched and tiered beams, positive poise positioning, spring loaded zero adjust compensator, self-aligning beam design, magnetic dampening to minimize oscillation and speed weighing, security loop, included weight set and storage compartment.



HR-G8010

Technical Specifications:

| | |
|----------------------|------------------------------------|
| Product Name | Triple Beam Pro Mechanical Balance |
| Product Code | HR-G8010 |
| Maximum Capacity (g) | 2610 |
| Readability (g) | 0,1 |
| Linearity (g) | ± 0.1 |
| Calibrations: | |
| Front beam | 10 g x 0.1 g |
| Middle beam | 500 g x 100 g |
| Rear beam | 100 g x 10 g |
| Pan Size | 5.8 in x 5.8 in (147 mm x 147 mm) |
| Pan Construction | ABS with Stainless Steel Inset |
| Dimensions (mm) | 168 x 451 x 161 |
| Net Weight (kg) | 2 |

ELECTRONIC BALANCES

ANALYTICAL BALANCES

The AS.R series represents a new standard level for analytical balances. It features modern, readable LCD display which allows a clearer presentation of the weighing result. The display has a new text information line presenting additional messages and data, e.g. product name or tare value.

Additionally, the new R series balance uses great number of pictograms to signal the active working mode, connection with the Internet, the battery charge level, balance service functions. Measuring units number has also been increased.

The balance precision and the measurement accuracy is assured by automatic internal adjustment, which analyses temperature changes and time flow.

AS.R series balance features several communication interfaces: 2 x RS 232, type A USB, type B USB and optional Wireless Connection.

The balance may cooperate with computer by means of USB interface supposing a supplementary software has been installed (respective driver). The said driver may be downloaded from RADWAG website – SOFTWARE link or SUPPORT section.

The housing is made of plastic, and the pan is made of stainless steel.

In new AS.R series balance the information system is based on 5 databases, which allows several users to work with several product databases, and the registered weighing results can be subject to further analysis.

The data is registered in 5 databases:

- users (up to 100 users),
- products (up to 1000 products),
- Weighings (up to 5000 weighings),
- tares (up to 100 tares),
- ALIBI memory (up to 100 000 weighments).

There is two-direction data exchange within the system thanks to a quick USB interface. New balance allows to import and export databases using USB pen drives.



HR-G8025



HR-G8030

Technical Specifications:

| Product Name | Electronic Analytical Balance | | |
|-------------------------------|--|----------|----------|
| Product Code | HR-G8025 | HR-G8030 | HR-G8035 |
| Max capacity (gr) | 60/220 | 220 | 310 |
| Minimum load (mg) | 1 | 10 | 10 |
| Readability (mg) | 0,01 / 0,1 | 0,1 | 0,1 |
| Tare range (g) | -220 | -220 | -310 |
| Linearity (mg) | ± 0,06 mg (to 60 g) ± 0,2 mg (60 g ÷ 220 g) | ± 0,2 mg | ± 0,3 mg |
| Pan Size | Ø 90 mm open-work | Ø 100 mm | Ø 100 mm |
| Working temperature (°C) | (±10) ÷ (+ 40) | | |
| Interface | 2×RS 232, USB-A, USB-B | | |
| Wireless connection (option)* | 802.11 b/g/n | | |
| Power supply | 12 ÷ 16 V DC | | |
| Adjustment | internal | | |
| Display | LCD (with backlight) | | |
| Net weight/Gross weight (kg) | 5,3/7,3 | | |
| Packaging size (mm) | 495×400×515 | | |

* optional solution on purchase order

PRECISION BALANCES

PS.R1 series balances represent a new standard of precision balances. They feature a new, readable LCD display which allows a clearer presentation of the weighing result. Besides, the display has a new text information line allowing to show additional messages and data, e.g. product name or tare value.

New PS.R1 balances, like previously designed PS series balances, have pans in two possible dimensions: 128x128 mm or 195x195 mm. Balances with a smaller pan have a draft shield. They were equipped with the system of external mass adjustment.

PS.R1 balances feature several communication interfaces: 2 x RS 232, type A USB, type B USB and optional Wireless Connection.

The balance may cooperate with computer by means of USB interface supposing a supplementary software has been installed (respective driver). The said driver may be downloaded from RADWAG website – SOFTWARE link or SUPPORT section.

The housing is made of plastic, and the pan is made of stainless steel. The balances have a possibility to weigh products out of the pan (under-pan weighing) - the load hangs under the pan.

DATABASES IN R SERIES BALANCES

The information system is based on 5 databases, which allows for several users to work with several products databases, and the registered weighing results can be subject to further analysis.

The data is registered in 5 databases:

- users (up to 100 users),
- products (up to 1000 products),
- weighments (up to 5000 weighments),
- tares (up to 100 tares),
- ALIBI memory (up to 100 000 weighments).

There is two directions data exchange within the system thanks to a quick USB interface. New balances allow to import and export databases using USB pen drives.

Quick access to information

Direct access to functions and databases is possible from the level of keyboard.

- **Database**

a direct access to databasis

- **Function**

a direct access to the basic functions

- **F1 to F4**

programmable function and navigation keys on the menu



HR-G8050

ALIBI MEMORY

The used ALIBI memory is a data secure area and allows to record up to 100 000 weighment records. It ensures security of constant data register in the long time period.

Technical Specifications:

| Product Name | Electronic Precision Balance | | | |
|--------------------------------|------------------------------|----------|----------|----------|
| | HR-G8049 | HR-G8050 | HR-G8055 | HR-G8056 |
| Max capacity (gr) | 360 | 510 | 750 | 1000 |
| Minimum load (g) | 0,02 | | | |
| Readability (g) | 0,001 | | | |
| Tare range (g) | -360 | -510 | -750 | -1000 |
| Repeatability* (g) | 0.001 | | 0.0015 | |
| Linearity (g) | ±0.002 | ±0.002 | ±0.003 | |
| Pan Size (mm) | 128 x 128 | | | |
| Working temperature (°C) | (±10) ÷ (+ 40) | | | |
| Stabilization time (s) | 2 | | | |
| Interface | 2×RS 232, USB-A, USB-B | | | |
| Wireless connection (option)** | 802.11 b/g/n | | | |
| Power supply | 12 ÷ 16 V DC | | | |
| Adjustment/Calibration | external | | | |
| Display | LCD (with backlight) | | | |
| Net weight/Gross weight (kg) | 3,2/4,8 | | | |
| Packaging size (mm) | 470×380×340 | | | |

* Repeatability is expressed as a standard deviation from 10 weighing cycles.

** optional solution on purchase order

Technical Specifications:

| Product Name | Electronic Precision Balance | | | |
|--------------------------------|------------------------------|----------|----------|----------|
| | HR-G8059 | HR-G8060 | HR-G8070 | HR-G8075 |
| Max capacity (gr) | 3500 | 4500 | 6000 | 10100 |
| Minimum load (g) | 0,5 | | | |
| Readability (g) | 0,01 | | | |
| Tare range (g) | -3500 | -4500 | -6000 | -10100 |
| Repeatability* (g) | 0.01 | | 0.015 | 0.012 |
| Linearity (g) | ±0.02 | | ±0.03 | |
| Pan Size (mm) | 195 x 195 | | | |
| Working temperature (°C) | (±10) ÷ (+ 40) | | | |
| Stabilization time (s) | 1,5 | | | |
| Interface | 2×RS 232, USB-A, USB-B | | | |
| Wireless connection (option)** | 802.11 b/g/n | | | |
| Power supply | 12 ÷ 16 V DC | | | |
| Adjustment/Calibration | external | | | internal |
| Display | LCD (with backlight) | | | |
| Net weight/Gross weight (kg) | 3,6/5,1 | | 3,9/5,4 | |
| Packaging size (mm) | 470×380×336 | | | |

* Repeatability is expressed as a standard deviation from 10 weighing cycles.

** optional solution on purchase order



DIGITAL BALANCES

Designed for laboratory General Purposes, most of them are fitted with under balance weighting facility for Specific Gravity Tests.

The Digital Balances provide a wide range of maximum capacity and readability characteristics which make them economical and easy to use, they are ideal for central and site laboratories who require a range of balances for various applications.

Sturdy and precise, they are fitted with Load Cells and large backlighted LCD displays that give precise measurements within the 0°C to 40°C temperature range.

Counting with Sample, Weight Percentage, Overload and Shock Protection.



HR-G8100

Technical Specifications:

| Product Code | HR-G8044 | HR-G8045 | HR-G8085 | HR-G8096 | HR-G8090 | HR-G8090/S | HR-G8095 |
|------------------------------|---|----------|----------|----------|----------|------------|----------|
| Product Name | Digital Balance | | | | | | |
| Max capacity (gr) | 300 | 500 | 600 | 1000 | 3000 | 3000 | 5000 |
| Readability (g) | 0,001 | 0,001 | 0,01 | 0,01 | 0,01 | 0,01 | 0,01 |
| Working temperature (°C) | (+) – (+ 40) | | | | | | |
| Battery Powered | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power supply | External Power Adaptor / 220 V, 50 Hz, 1 ph | | | | | | |
| Specific Gravity | --- | --- | --- | --- | --- | ✓ | --- |
| Adjustment/Calibration | external | | | | | | |
| Display | LCD | | | | | | |
| Pan size (mm) | Ø 90 | | Ø 130 | | | Ø 160 | 170x140 |
| Net weight/Gross weight (kg) | 4 | | | | 5 | | |

| Product Code | HR-G8100 | HR-G8100/S | HR-G8105 | HR-G8105/S | HR-G8110 | HR-G8115 |
|------------------------------|---|------------|----------|------------|----------|----------|
| Product Name | Digital Balance | | | | | |
| Max capacity (gr) | 6000 | 6000 | 30000 | 30000 | 30000 | 30000 |
| Readability (g) | 0,1 | 0,1 | 0,5 | 0,5 | 0,1 | 1 |
| Working temperature (°C) | (+) – (+ 40) | | | | | |
| Battery Powered | ✓ | ✓ | ✓ | ✓ | ✓ | ✓ |
| Power supply | External Power Adaptor / 220 V, 50 Hz, 1 ph | | | | | |
| Specific Gravity | --- | ✓ | --- | ✓ | --- | --- |
| Adjustment/Calibration | external | | | | | |
| Display | LCD | | | | | |
| Pan size (mm) | 270x210 | | | | | 250x210 |
| Net weight/Gross weight (kg) | 5 | | | | | |

DIGITAL PLATFORM BALANCES

The Digital Platform Scale Series provides a reliable macroscale weighing facility up to 300 kg maximum capacity with 5 g, 10 g, 20g and 50 g readability values, for fast and economical weight measurements. These modern balances are designed to perform precise and accurate measurements under the heaviest industrial conditions.

Technical Specifications:

| Product Code | HR-G8120 | HR-G8121 | HR-G8125 | HR-G8130 | HR-G8135 | HR-G8136 | HR-G8140 |
|--------------------------|--|----------|----------|----------|----------|----------|----------|
| Product Name | Digital Platform Balances | | | | | | |
| Max capacity (kg) | 60 | 60 | 150 | 150 | 150 | 150 | 150 |
| Readability (g) | 5 | 5 | 5 | 10 | 10 | 20 | 50 |
| Platform Size (cm) | 40x50 | 50x60 | 50x60 | 50x60 | 40x50 | 40x50 | 50x60 |
| Working temperature (°C) | (+) – (+ 40) | | | | | | |
| Power supply | Rechargeable Battery and External Power Adaptor / 220 V, 50 Hz, 1 ph | | | | | | |
| Adjustment/Calibration | external | | | | | | |
| Display | LCD | | | | | | |

Technical Specifications:

| Product Code | HR-G8145 | HR-G8146 | HR-G8150 | HR-G8151 |
|--------------------------|--|----------|----------|----------|
| Product Name | Digital Platform Balances | | | |
| Max capacity (kg) | 300 | 300 | 600 | 600 |
| Readability (g) | 10 | 50 | 20 | 100 |
| Platform Size (cm) | 50x60 | 50x60 | 60x70 | 60x70 |
| Working temperature (°C) | (±0) – (+40) | | | |
| Power supply | Rechargeable Battery and External Power Adaptor / 220 V, 50 Hz, 1 ph | | | |
| Adjustment/Calibration | external | | | |
| Display | LCD | | | |



HR-G8125

MOISTURE ANALYSERS

Moisture analyzer is a laboratory measuring instrument intended to determine relative humidity for small samples of different materials. Moisture analyzers redefines moisture analyzers standards. This series has been equipped with brand new readable LCD display providing an extra text line for information such as supplementary messages and data, e.g. product name or tare value. The moisture analyzer, using respective pictograms, signalizes currently activated mode, computer connection and functions, both balance and service ones.

The Moisture analyzer is enriched with various interfaces: RS232, USB type A, USB type B and Wi Fi as an option. The moisture analyzer is housed in a plastic casing.

Information system of Moisture Analyzers is based on 6 databases, allowing many operators to operate product database comprising many samples. Collected measurements may be subjected to subsequent analysis.

Collected data is registered in 6 databases:

- Users (up to 100 users)
- Products (up to 1000 products)
- Weighments (up to 1000 weighments)
- Tares (up to 100 tares)
- Programs (up to 100 drying programs)
- Drying process reports (up to 1000 reports)

Exchange of information within the system is performed by means of USB port on bi-directional basis. It is possible to import and export databases using memory sticks.

Direct access to information

It is possible to access functions and databases directly, using keyboard soft keys.

Database – access to databases

Function – access to basic functions

F1 and F2 – programmable function keys and menu navigation keys

Reports – access to database of drying process reports

Profile – access to parameters settings

Sample – access to products database



HR-G8160



HR-G8160

HİRA TESTING EQUIPMENT

Technical Specifications:

| Product Code | HR-G8160 | HR-G8165 | HR-G8170 |
|----------------------------------|---|----------|----------|
| Product Name | Moisture Balance (Analyzer) | | |
| Max capacity (gr) | 50 | 110 | 210 |
| Readability (mg) | 1 | 1 | 1 |
| Tare range (g) | -50 | -110 | -210 |
| Operating Temperature (°C) | (±10) – (+40) | | |
| Max sample weight (g) | 50 | 110 | 210 |
| Moisture content readability (%) | 0,001 % | 0,001 % | 0,001 % |
| Moisture content repeatability | ± 0,05% (sample weight of 2 g), ± 0,01% (sample weight of 10 g) | | |
| Max sample height | h= 20 mm | | |
| Weighing pan size | Ø 90 mm, h= 8 mm | | |
| Drying temperature range | max. 160° C | | |
| Heating module * | IR emitter | | |
| Drying method | 4 drying profiles (standard, fast, step, mild) | | |
| Finish mode | 4 modes (automatic, manual, time-defined, user-defined) | | |
| Additional functions | sample traceability | | |
| Heating module power | 450 W | | |
| Power consumption | 4 W | | |
| Power supply | 230 V, 50 Hz, AC | | |
| LCD display | LCD (backlit) | | |
| Communication Interface | 1 × RS 232, USB-A, USB-B, WiFi (option) | | |
| Net weight/Gross weight (kg) | 4,8 / 6,3 | | |
| Packaging size (mm) | 470×380×336 | | |

* Heating element options: WH - halogen (max= 250° C), NS - metal heater (max=160° C)

STANDARD CALIBRATION WEIGHTS

Used for the periodic verification of the balance readings.

M1 class weights are manufactured from stainless steel or cast iron coated with black epoxy based paint, F1 and E2 class weights are manufactured from stainless steel.

Plastic or Wooden Boxes and Calibration Certificates should be ordered separately.

Technical Specifications for Class M1 Calibration Weights:

| Product Code | Material | Design | Weight |
|--------------|-----------------|-------------|---------|
| HR-G7000 | Stainless Steel | Wire | 1 mg |
| HR-G7001 | Stainless Steel | Wire | 2 mg |
| HR-G7002 | Stainless Steel | Wire | 5 mg |
| HR-G7003 | Stainless Steel | Wire | 10 mg |
| HR-G7004 | Stainless Steel | Wire | 20 mg |
| HR-G7005 | Stainless Steel | Wire | 50 mg |
| HR-G7006 | Stainless Steel | Wire | 100 mg |
| HR-G7007 | Stainless Steel | Wire | 200 mg |
| HR-G7008 | Stainless Steel | Wire | 500 mg |
| HR-G7009 | Stainless Steel | Cylindrical | 1 g |
| HR-G7010 | Stainless Steel | Cylindrical | 2 g |
| HR-G7011 | Stainless Steel | Cylindrical | 5 g |
| HR-G7012 | Stainless Steel | Cylindrical | 10 g |
| HR-G7013 | Stainless Steel | Cylindrical | 20 g |
| HR-G7014 | Stainless Steel | Cylindrical | 50 g |
| HR-G7015 | Stainless Steel | Cylindrical | 100 g |
| HR-G7016 | Stainless Steel | Cylindrical | 200 g |
| HR-G7017 | Stainless Steel | Cylindrical | 500 g |
| HR-G7030 | Steel-Nickel | Cylindrical | 500 g |
| HR-G7018 | Stainless Steel | Cylindrical | 1 kg |
| HR-G7031 | Cast Iron | Cylindrical | 1 kg |
| HR-G7019 | Stainless Steel | Cylindrical | 2 kg |
| HR-G7032 | Cast Iron | Cylindrical | 2 kg |
| HR-G7020 | Stainless Steel | Rectangular | 5 kg |
| HR-G7033 | Cast Iron | Rectangular | 5 kg |
| HR-G7021 | Stainless Steel | Rectangular | 10 kg |
| HR-G7034 | Cast Iron | Rectangular | 10 kg |
| HR-G7022 | Stainless Steel | Rectangular | 20 kg |
| HR-G7035 | Cast Iron | Rectangular | 20 kg |
| HR-G7036 | Cast Iron | Rectangular | 50 kg |
| HR-G7037 | Cast Iron | Rectangular | 100 kg |
| HR-G7038 | Cast Iron | Cylindrical | 200 kg |
| HR-G7039 | Cast Iron | Cylindrical | 500 kg |
| HR-G7040 | Cast Iron | Rectangular | 1000 kg |



Class M1,
Stainless Steel,
Cylindrical Series



HR-G7021



HR-G7035

HR-G7036

HR-G7033

HR-G7034

Spare Parts & Accessories for Class M1 Calibration Weights:

| Product Code | Product Name |
|--------------|---|
| HR-G7030/1 | Plastic Box for 1 - 500 g, Class M1, Stainless Steel Calibration Weight |
| HR-G7018/1 | Plastic Box for 1 kg, Class M1, Stainless Steel Calibration Weight |
| HR-G7019/1 | Plastic Box for 2 kg, Class M1, Stainless Steel Calibration Weight |
| HR-G7020/1 | Plastic Box for 5 kg, Class M1, Stainless Steel Calibration Weight |
| HR-G7033/1 | Wooden Box for 5 kg, Class M1, Cast Iron Calibration Weight |
| HR-G7021/1 | Plastic Box for 10 kg, Class M1, Stainless Steel Calibration Weight |
| HR-G7034/1 | Wooden Box for 10 kg, Class M1, Cast Iron Calibration Weight |
| HR-G7022/1 | Plastic Box for 20 kg, Class M1, Stainless Steel Calibration Weight |
| HR-G7035/1 | Wooden Box for 20 kg, Class M1, Cast Iron Calibration Weight |
| HR-G7050 | Calibration Certificate for 500 g - 5 kg Calibration Weight |
| HR-G7051 | Calibration Certificate for 10 kg - 20 kg Calibration Weight |
| HR-G7052 | Calibration Certificate for 50 kg Calibration Weight |

Technical Specifications for Class F1 Calibration Weights:

| Product Code | Material | Design | Weight |
|--------------|-----------------|---------------|--------|
| HR-G7070 | Stainless Steel | Leaf Aluminum | 1 mg |
| HR-G7071 | Stainless Steel | Leaf Aluminum | 2 mg |
| HR-G7072 | Stainless Steel | Leaf Aluminum | 5 mg |
| HR-G7073 | Stainless Steel | Leaf Aluminum | 10 mg |
| HR-G7074 | Stainless Steel | Leaf Aluminum | 20 mg |
| HR-G7075 | Stainless Steel | Leaf Aluminum | 50 mg |
| HR-G7076 | Stainless Steel | Leaf Aluminum | 100 mg |
| HR-G7077 | Stainless Steel | Leaf Aluminum | 200 mg |
| HR-G7078 | Stainless Steel | Leaf Aluminum | 500 mg |
| HR-G7079 | Stainless Steel | Leaf Aluminum | 1 g |
| HR-G7080 | Stainless Steel | Leaf Aluminum | 2 g |
| HR-G7081 | Stainless Steel | Leaf Aluminum | 5 g |
| HR-G7082 | Stainless Steel | Leaf Aluminum | 10 g |
| HR-G7083 | Stainless Steel | Leaf Aluminum | 20 g |
| HR-G7084 | Stainless Steel | Leaf Aluminum | 50 g |
| HR-G7085 | Stainless Steel | Leaf Aluminum | 100 g |
| HR-G7086 | Stainless Steel | Leaf Aluminum | 200 g |
| HR-G7087 | Stainless Steel | Leaf Aluminum | 500 g |
| HR-G7088 | Stainless Steel | Cylindrical | 1 kg |
| HR-G7089 | Stainless Steel | Cylindrical | 2 kg |
| HR-G7090 | Stainless Steel | Cylindrical | 5 kg |
| HR-G7091 | Stainless Steel | Cylindrical | 10 kg |
| HR-G7092 | Stainless Steel | Cylindrical | 20 kg |
| HR-G7093 | Stainless Steel | Cylindrical | 50 kg |

Class F1,
Stainless Steel,
Cylindrical Series

HR-G7090

Spare Parts & Accessories for Class F1 Calibration Weights:

| Product Code | Product Name |
|--------------|--|
| HR-G7100 | Plastic Box for 1 mg - 500 g, Class F1, Stainless Steel Calibration Weight |
| HR-G7101 | Plastic Box for 1 kg - 2 kg, Class F1, Stainless Steel Calibration Weight |
| HR-G7102 | Plastic Box for 5 kg, Class F1, Stainless Steel Calibration Weight |
| HR-G7103 | Plastic Box for 10 kg, Class F1, Stainless Steel Calibration Weight |
| HR-G7104 | Plastic Box for 20 kg, Class F1, Stainless Steel Calibration Weight |
| HR-G7105 | Plastic Box for 50 kg, Class F1, Stainless Steel Calibration Weight |
| HR-G7125 | Calibration Certificate for 1 mg - 2 kg Calibration Weight |
| HR-G7126 | Calibration Certificate for 5 kg - 10 kg Calibration Weight |
| HR-G7127 | Calibration Certificate for 20 kg Calibration Weight |
| HR-G7128 | Calibration Certificate for 50 kg Calibration Weight |

Technical Specifications for Class E2 Calibration Weights:

| Product Code | Material | Design | Weight |
|--------------|-----------------|-------------|--------|
| HR-G7140 | Stainless Steel | Wire | 1 mg |
| HR-G7141 | Stainless Steel | Wire | 2 mg |
| HR-G7142 | Stainless Steel | Wire | 5 mg |
| HR-G7143 | Stainless Steel | Wire | 10 mg |
| HR-G7144 | Stainless Steel | Wire | 20 mg |
| HR-G7145 | Stainless Steel | Wire | 50 mg |
| HR-G7146 | Stainless Steel | Wire | 100 mg |
| HR-G7147 | Stainless Steel | Wire | 200 mg |
| HR-G7148 | Stainless Steel | Wire | 500 mg |
| HR-G7149 | Stainless Steel | Cylindrical | 1 g |
| HR-G7150 | Stainless Steel | Cylindrical | 2 g |
| HR-G7151 | Stainless Steel | Cylindrical | 5 g |
| HR-G7152 | Stainless Steel | Cylindrical | 10 g |
| HR-G7153 | Stainless Steel | Cylindrical | 20 g |
| HR-G7154 | Stainless Steel | Cylindrical | 50 g |
| HR-G7155 | Stainless Steel | Cylindrical | 100 g |
| HR-G7156 | Stainless Steel | Cylindrical | 200 g |
| HR-G7157 | Stainless Steel | Cylindrical | 500 g |
| HR-G7158 | Stainless Steel | Cylindrical | 1 kg |
| HR-G7159 | Stainless Steel | Cylindrical | 2 kg |
| HR-G7160 | Stainless Steel | Cylindrical | 5 kg |
| HR-G7161 | Stainless Steel | Cylindrical | 10 kg |
| HR-G7162 | Stainless Steel | Cylindrical | 20 kg |
| HR-G7163 | Stainless Steel | Cylindrical | 50 kg |



**Class E1-E2,
Stainless Steel,
Cylindrical Series**

Spare Parts & Accessories for Class E2 Calibration Weights:

| Product Code | Product Name |
|--------------|--|
| HR-G7157/1 | Plastic Box for 1 mg - 500 g, Class E2, Stainless Steel Calibration Weight |
| HR-G7158/1 | Plastic Box for 1 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7159/1 | Plastic Box for 2 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7160/1 | Plastic Box for 5 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7161/1 | Plastic Box for 10 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7162/1 | Plastic Box for 20 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7163/1 | Plastic Box for 50 kg, Class E2, Stainless Steel Calibration Weight |
| HR-G7175 | Calibration Certificate for 1 mg - 2 kg Calibration Weight |
| HR-G7176 | Calibration Certificate for 5 kg - 10 kg Calibration Weight |
| HR-G7177 | Calibration Certificate for 20 kg Calibration Weight |
| HR-G7178 | Calibration Certificate for 50 kg Calibration Weight |

Class M1 Stainless Steel Calibration Weight Sets:

| Product Code | Weight Set | Weights |
|--------------|--------------|--|
| HR-G7060 | 1 mg- 500 mg | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg |
| HR-G7061 | 1 mg- 100 g | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100 g |
| HR-G7062 | 1 mg- 500 g | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g |
| HR-G7063 | 1 mg- 1 kg | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g, 1x1 kg |
| HR-G7064 | 1 g- 500 g | 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g |
| HR-G7065 | 1 g- 1 kg | 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g, 1x1 kg |

Class F1 Stainless Steel Calibration Weight Sets:

| Product Code | Weight Set | Weights |
|--------------|--------------|--|
| HR-G7260 | 1 mg- 500 mg | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg |
| HR-G7261 | 1 mg- 100 g | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100 g |
| HR-G7262 | 1 mg- 500 g | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g |
| HR-G7263 | 1 mg- 1 kg | 1x1 mg , 2x2 mg, 1x5 mg, 1x10 mg , 2x20 mg, 1x50 mg, 1x100 mg, 2x200 mg, 1x500 mg, 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g, 1x1 kg |
| HR-G7264 | 1 g- 500 g | 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g |
| HR-G7265 | 1 g- 1 kg | 1x1 g, 2x2 g, 1x5 g, 1x10 g, 2x20 g, 1x50 g, 1x100g, 2x200 g, 1x500 g, 1x1 kg |

LABORATORY GLASSWARE

HİRA Test supplies high quality General Laboratory Glassware for various material testing applications.

Glass Measuring Cylinders

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|-----------------------------------|-----------------|-------------|
| HR-G0020 | Glass Measuring Cylinder, 10 ml | 13x13x140 | 0.05 |
| HR-G0021 | Glass Measuring Cylinder, 25 ml | 20x20x145 | 0.1 |
| HR-G0022 | Glass Measuring Cylinder, 50 ml | 26x26x180 | 0.1 |
| HR-G0023 | Glass Measuring Cylinder, 100 ml | 30x30x250 | 0.1 |
| HR-G0024 | Glass Measuring Cylinder, 250 ml | 40x40x320 | 0.2 |
| HR-G0025 | Glass Measuring Cylinder, 500 ml | 50x50x390 | 0.25 |
| HR-G0026 | Glass Measuring Cylinder, 1000 ml | 65x65x460 | 0.5 |
| HR-G0027 | Glass Measuring Cylinder, 2000 ml | 120x120x550 | 0.75 |



Glass Beakers

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|----------------------|-----------------|-------------|
| HR-G0001 | Glass Beaker 10 ml | 34x34x50 | 0.01 |
| HR-G0002 | Glass Beaker 25 ml | 42x42x60 | 0.05 |
| HR-G0003 | Glass Beaker 50 ml | 50x50x70 | 0.1 |
| HR-G0004 | Glass Beaker 100 ml | 60x60x80 | 0.1 |
| HR-G0005 | Glass Beaker 250 ml | 70x70x95 | 0.1 |
| HR-G0006 | Glass Beaker 400 ml | 80x80x100 | 0.2 |
| HR-G0007 | Glass Beaker 600 ml | 90x90x125 | 0.25 |
| HR-G0008 | Glass Beaker 800 ml | 100x100x135 | 0.5 |
| HR-G0009 | Glass Beaker 1000 ml | 105x105x145 | 0.75 |
| HR-G0010 | Glass Beaker 2000 ml | 130x130x185 | 1 |
| HR-G0011 | Glass Beaker 3000 ml | 130x130x300 | 2 |
| HR-G0012 | Glass Beaker 5000 ml | 130x130x485 | 3 |



Pyknometers (Specific Gravity Bottle, Gay Lussac Type)

Pyrex glass, complete with capillary tube stopper; to determine the particle density and specific gravity of filler in fine aggregates.

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|---|-----------------|-------------|
| HR-G0040 | Pyknometer (Specific Gravity Bottle), 25 ml | 40x40x90 | 0.05 |
| HR-G0041 | Pyknometer (Specific Gravity Bottle), 50 ml | 50x50x100 | 0.05 |
| HR-G0042 | Pyknometer (Specific Gravity Bottle), 100 ml | 60x60x120 | 0.05 |
| HR-G0043 | Pyknometer (Specific Gravity Bottle), 250 ml | 100x100x150 | 0.1 |
| HR-G0044 | Pyknometer (Specific Gravity Bottle), 500 ml | 110x110x200 | 0.1 |
| HR-G0045 | Pyknometer (Specific Gravity Bottle), 1000 ml | 150x150x220 | 0.2 |



Hubbard & Carmick Specific Gravity Bottle

STANDARDS: EN ISO 3838, ASTM D70, AASHTO T228, AASHTO T43

It is used for determining the specific gravity or relative density of bitumen.

Technical Specifications:

| Product Code | Product Name | Capacity (ml) |
|--------------|--|---------------|
| HR-G0056 | Hubbard Specific Gravity Bottle, Cylindrical | 24 |
| HR-G0057 | Hubbard-Carmick Specific Gravity Bottle, Conical | 25 |



HİRA TESTING EQUIPMENT

Pyknometer (Bottle Type)

Pyrex glass, complete with stopper; used to determine the voids and bulk density of aggregates.

Double Edged and Capillary Tubed Funnel should be ordered separately.

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|-------------------------------------|-----------------|-------------|
| HR-G0050 | Pyknometer (Bottle Type), 500 ml | 130x130x270 | 0,7 |
| HR-G0051 | Pyknometer (Bottle Type), 1000 ml | 150x150x270 | 0,9 |
| HR-G0052 | Pyknometer (Bottle Type), 2000 ml | 180x180x330 | 1,25 |
| HR-G0053 | Pyknometer (Bottle Type), 3000 ml | 200x200x340 | 1,35 |
| HR-G0054 | Pyknometer (Bottle Type), 5000 ml | 250x250x400 | 1,6 |
| HR-G0055 | Funnel for Pyknometer (Bottle Type) | 55x55x270 | 0,2 |



Conical Flasks, Erlenmeyer

Technical Specifications:

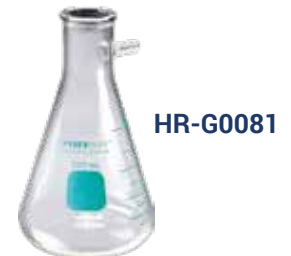
| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|------------------------------------|-----------------|-------------|
| HR-G0065 | Conical Flask, Erlenmeyer, 50 ml | 51x51x95 | 0.05 |
| HR-G0066 | Conical Flask, Erlenmeyer, 100 ml | 64x64x110 | 0.1 |
| HR-G0067 | Conical Flask, Erlenmeyer, 150 ml | 74x74x115 | 0.13 |
| HR-G0068 | Conical Flask, Erlenmeyer, 250 ml | 85x85x145 | 0.2 |
| HR-G0069 | Conical Flask, Erlenmeyer, 300 ml | 87x87x150 | 0.45 |
| HR-G0070 | Conical Flask, Erlenmeyer, 500 ml | 105x105x174 | 0.6 |
| HR-G0071 | Conical Flask, Erlenmeyer, 1000 ml | 70x70x120 | 1 |
| HR-G0072 | Conical Flask, Erlenmeyer, 2000 ml | 131x131x220 | 1.6 |
| HR-G0073 | Conical Flask, Erlenmeyer, 5000 ml | 166x166x280 | 3 |



Filter Flasks for Vacuum Filtering

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|------------------------|-----------------|-------------|
| HR-G0080 | Filter Flask, 250 ml | 187x187x310 | 0.2 |
| HR-G0081 | Filter Flask, 500 ml | 166x166x260 | 0.25 |
| HR-G0082 | Filter Flask, 1000 ml | 207x207x315 | 1 |
| HR-G0083 | Filter Flask, 2000 ml | 207x207x315 | 2 |
| HR-G0090 | Carsten-Röhrchen Flask | --- | --- |



Volumetric Flasks

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|---------------------------|-----------------|-------------|
| HR-G0095 | Volumetric Flask, 5 ml | 20x20x40 | 0.01 |
| HR-G0096 | Volumetric Flask, 10 ml | 30x30x50 | 0.05 |
| HR-G0097 | Volumetric Flask, 25 ml | 45x45x70 | 0.1 |
| HR-G0098 | Volumetric Flask, 50 ml | 51x51x95 | 0.1 |
| HR-G0099 | Volumetric Flask, 100 ml | 64x64x110 | 0.1 |
| HR-G0100 | Volumetric Flask, 250 ml | 70x70x120 | 0.2 |
| HR-G0101 | Volumetric Flask, 500 ml | 85x85x145 | 0.25 |
| HR-G0102 | Volumetric Flask, 1000 ml | 105x105x175 | 0.5 |
| HR-G0103 | Volumetric Flask, 2000 ml | 131x131x200 | 0.75 |
| HR-G0104 | Volumetric Flask, 3000 ml | 166x166x260 | 1 |
| HR-G0105 | Volumetric Flask, 5000 ml | 207x207x315 | 2 |



Graduated Impurities Test Bottles

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|---|-----------------|-------------|
| HR-G0110 | Graduated Impurities Test Bottle, Glass 250 ml | 100x100x200 | 0.25 |
| HR-G0111 | Graduated Impurities Test Bottle, Glass 500 ml | 200x200x400 | 0.5 |
| HR-G0112 | Graduated Impurities Test Bottle, Glass 1000 ml | 300x300x500 | 1 |
| HR-G0113 | Graduated Impurities Test Bottle, Glass 2000 ml | 450x450x700 | 1.75 |



HR-G0111

Glass Funnels

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------|
| HR-G0120 | Glass Funnel, 40 mm |
| HR-G0121 | Glass Funnel, 60 mm |
| HR-G0122 | Glass Funnel, 75 mm |
| HR-G0123 | Glass Funnel, 100 mm |
| HR-G0124 | Glass Funnel, 120 mm |
| HR-G0125 | Glass Funnel, 200 mm |



HR-G0122

Imhoff Funnel

Technical Specifications:

| Product Code | Product Name |
|--------------|------------------------|
| HR-G0127 | Imhoff Funnel, 1000 ml |



HR-G0127

Watch Glasses

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------|
| HR-G0135 | Watch Glass, 70 mm |
| HR-G0136 | Watch Glass, 100 mm |
| HR-G0137 | Watch Glass, 120 mm |
| HR-G0138 | Watch Glass, 150 mm |

HR-G0137 & HR-G0138



HR-G0136

HR-G0135

Petri Dishes

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|--------------------|-----------------|-------------|
| HR-G0150 | Petri Dish, 100 mm | 120x120x80 | 0.25 |
| HR-G0151 | Petri Dish, 120 mm | 100x100x80 | 0.25 |

HR-G0150



HR-G0151

Weighing Bottles

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------------|
| HR-G0244 | Weighing bottle, 30x30 mm |
| HR-G0245 | Weighing bottle, 40x40 mm |
| HR-G0246 | Weighing bottle, 50x30 mm |
| HR-G0247 | Weighing bottle, 60x30 mm |
| HR-G0248 | Weighing bottle, 70x35 mm |
| HR-G0249 | Weighing bottle, 80x40 mm |



HR-G0246

Graduated Pipettes

Technical Specifications:

| Product Code | Product Name |
|--------------|--------------------------------------|
| HR-G0160 | Pipette, 1 ml |
| HR-G0161 | Pipette, 2 ml |
| HR-G0162 | Pipette, 5 ml |
| HR-G0163 | Pipette, 10 ml |
| HR-G0164 | Pipette, 25 ml |
| HR-G0170 | Pasteur Pipette, 150 mm. Pack of 250 |
| HR-G0171 | Pasteur Pipette, 230 mm. Pack of 250 |



HR-G0164 & HR-G0163
HR-G0162 & HR-G016
HR-G0160

Burettes

Technical Specifications:

| Product Code | Product Name |
|--------------|---|
| HR-G0180 | Burette, 10 ml |
| HR-G0181 | Burette, 25 ml |
| HR-G0182 | Burette, 50 ml |
| HR-G0183 | Burette, 100 ml |
| HR-G0190 | Amber Burette, 10 ml |
| HR-G0191 | Amber Burette, 25 ml |
| HR-G0192 | Amber Burette, 50 ml |
| HR-G0193 | Automatic Burette, Single Tap, 10 ml |
| HR-G0194 | Automatic Burette, Single Tap, 25 ml |
| HR-G0195 | Automatic Burette, Single Tap, 50 ml |
| HR-G0196 | Automatic Burette, Double Tap, 10 ml |
| HR-G0197 | Automatic Burette, Double Tap, 25 ml |
| HR-G0198 | Automatic Burette, Double Tap, 50 ml |
| HR-G0199 | Automatic Burette, Double Tap, 100 ml |
| HR-G0205 | Automatic Amber Burette, Double Tap, 10 ml |
| HR-G0206 | Automatic Amber Burette, Double Tap, 25 ml |
| HR-G0207 | Automatic Amber Burette, Double Tap, 50 ml |
| HR-G0208 | Amber Automatic Burette Storage Bottle, 2000 ml |
| HR-G0210 | Automatic Burette Storage Bottle, 2000 ml |



HR-G0182



HR-G0192



HR-G0198



HR-G0210



HR-G0208

Stirring Rods

Technical Specifications:

| Product Code | Product Name |
|--------------|------------------------|
| HR-G0215 | Stirring Rod, 6*200 mm |
| HR-G0216 | Stirring Rod, 8*300 mm |



HR-G0216

Desiccators

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (kg) |
|--------------|----------------------------------|-----------------|-------------|
| HR-G0220 | Desiccator, Ø210 mm | 310x310x250 | 3.50 |
| HR-G0221 | Desiccator, Ø240 mm | 340x340x300 | 3.50 |
| HR-G0222 | Desiccator, Ø300 mm | 400x400x350 | 3.50 |
| HR-G0223 | Desiccator, Ø210 mm. Vacuum Type | 310x310x250 | 3.50 |
| HR-G0224 | Desiccator, Ø240 mm. Vacuum Type | 340x340x300 | 3.50 |
| HR-G0225 | Desiccator, Ø300 mm. Vacuum Type | 400x400x350 | 3.50 |
| HR-G0229 | Safety Cage | -- | 2 |

HR-G0223



HR-G0221



HYDROMETERS

Technical Specifications:

| Product Code | Product Name |
|--------------|---|
| HR-G0230 | Hydrometer, 700-800 |
| HR-G0231 | Hydrometer, 800-900 |
| HR-G0232 | Hydrometer, 900-1000 |
| HR-G0233 | Hydrometer, 1000-1100 |
| HR-G0234 | Hydrometer, 1100-1200 |
| HR-G0235 | Hydrometer, 1200-1300 |
| HR-G0236 | Hydrometer, 1300-1400 |
| HR-G0237 | Hydrometer, 1400-1500 |
| HR-G0238 | Hydrometer, 1500-1600 |
| HR-G0239 | Hydrometer, 1600-1700 |
| HR-G0240 | Hydrometer, 1700-1800 |
| HR-G0241 | Hydrometer, 1800-1900 |
| HR-G0242 | Hydrometer, 1900-2000 |
| HR-S6420 | 151 H Hydrometer, 0,995 to 1,038 g/ml range |
| HR-S6415 | 152 H Hydrometer, -5 to 60 g/l range |



Chapman Flask

Used for field determination of the amount of surface moisture in fine aggregates.

Graduated to 200 ml between the two bulbs and from 375 up to 450 ml above the second bulb.

Technical Specifications:

| Product Code | Product Name | Weight (gr) |
|--------------|---------------|-------------|
| HR-G0128 | Chapman Flask | 500 |



HR-G0128

PLASTIC LABORATORY PRODUCTS

HİRA Test supplies high quality General Laboratory Plastic Products for various material testing applications.

Plastic Measuring Cylinders

Technical Specifications:

| Product Code | Product Name |
|--------------|-------------------------------------|
| HR-G0250 | Plastic Measuring Cylinder, 10 ml |
| HR-G0251 | Plastic Measuring Cylinder, 25 ml |
| HR-G0252 | Plastic Measuring Cylinder, 50 ml |
| HR-G0253 | Plastic Measuring Cylinder, 100 ml |
| HR-G0254 | Plastic Measuring Cylinder, 250 ml |
| HR-G0255 | Plastic Measuring Cylinder, 500 ml |
| HR-G0256 | Plastic Measuring Cylinder, 1000 ml |
| HR-G0257 | Plastic Measuring Cylinder, 2000 ml |



Plastic Beakers

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------------------|
| HR-G0275 | Plastic Beaker, 25 ml |
| HR-G0276 | Plastic Beaker, 50 ml |
| HR-G0277 | Plastic Beaker, 100 ml |
| HR-G0278 | Plastic Beaker, 250 ml |
| HR-G0279 | Plastic Beaker, 500 ml |
| HR-G0280 | Plastic Beaker, 1000 ml |
| HR-G0281 | Plastic Beaker, 2000 ml |
| HR-G0290 | Plastic Beaker, Handled, 250 ml |
| HR-G0291 | Plastic Beaker, Handled, 500 ml |
| HR-G0292 | Plastic Beaker, Handled, 1000 ml |
| HR-G0293 | Plastic Beaker, Handled, 2000 ml |
| HR-G0294 | Plastic Beaker, Handled, 3000 ml |
| HR-G0295 | Plastic Beaker, Handled, 5000 ml |



Plastic Volumetric Flasks

Technical Specifications:

| Product Code | Product Name |
|--------------|-----------------------------------|
| HR-G0305 | Plastic Volumetric Flask, 25 ml |
| HR-G0306 | Plastic Volumetric Flask, 50 ml |
| HR-G0307 | Plastic Volumetric Flask, 100 ml |
| HR-G0308 | Plastic Volumetric Flask, 250 ml |
| HR-G0309 | Plastic Volumetric Flask, 500 ml |
| HR-G0310 | Plastic Volumetric Flask, 1000 ml |



Plastic Funnels

Technical Specifications:

| Product Code | Product Name |
|--------------|------------------------|
| HR-G0311 | Plastic Funnel, 50 mm |
| HR-G0312 | Plastic Funnel, 70 mm |
| HR-G0313 | Plastic Funnel, 90 mm |
| HR-G0314 | Plastic Funnel, 100 mm |
| HR-G0315 | Plastic Funnel, 120 mm |
| HR-G0316 | Plastic Funnel, 150 mm |



Wash Bottles

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------|
| HR-G0265 | Wash Bottle, 100 ml |
| HR-G0266 | Wash Bottle, 250 ml |
| HR-G0267 | Wash Bottle, 500 ml |
| HR-G0268 | Wash Bottle, 1000 ml |

HR-G0268



HR-G0267

HR-G0266

Plastic Buckets

Technical Specifications:

| Product Code | Product Name |
|--------------|-----------------------|
| HR-G0317 | Plastic Bucket, 25 lt |
| HR-G0318 | Plastic Bucket, 35 lt |
| HR-G0319 | Plastic Bucket, 50 lt |
| HR-G0320 | Plastic Bucket, 70 lt |



HR-G0319

Sample Bags

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0330 | Sample Zip Lock Bag, Pack of 300. 17x23 cm |
| HR-G0331 | Sample Zip Lock Bag, Pack of 300. 19x25 cm |
| HR-G0332 | Sample Zip Lock Bag, Pack of 300. 21x27 cm |
| HR-G0333 | Sample Zip Lock Bag, Pack of 300. 23x31 cm |
| HR-G0334 | Sample Zip Lock Bag, Pack of 200. 26x35 cm |



HR-G0331

Pipette & Pumps

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0345 | Plastic Pasteur Pipette, 3 ml, Pack of 500 |
| HR-G0346 | Hand Pump for Pipette/Burette |
| HR-G0347 | Hand Pump, Three-Way for Pipette/Burette |
| HR-G0348 | Pipet Pump, 2 ml (Blue), 10 ml(Green), 25 ml (Red) |

HR-G0347



HR-G0348

HR-G0345



PORCELAIN LABORATORY PRODUCTS

HİRA Test supplies high quality General Laboratory Porcelain Products for various material testing applications.

Porcelain Mortars with Pestle

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------------------------|
| HR-G0355 | Porcelain Mortar with Pestle, Ø80 mm |
| HR-G0356 | Porcelain Mortar with Pestle, Ø100 mm |
| HR-G0357 | Porcelain Mortar with Pestle, Ø130 mm |
| HR-G0358 | Porcelain Mortar with Pestle, Ø160 mm |
| HR-G0359 | Porcelain Mortar with Pestle, Ø190 mm |



HR-G0356

Porcelain Evaporating Dishes

Technical Specifications:

| Product Code | Product Name |
|--------------|-------------------------------------|
| HR-G0365 | Porcelain Evaporating Dish, Ø50 mm |
| HR-G0366 | Porcelain Evaporating Dish, Ø70 mm |
| HR-G0367 | Porcelain Evaporating Dish, Ø80 mm |
| HR-G0368 | Porcelain Evaporating Dish, Ø100 mm |
| HR-G0369 | Porcelain Evaporating Dish, Ø120 mm |

HR-G0366



HR-G0368



Porcelain Crucibles

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------------|
| HR-G0375 | Porcelain Crucible, 15 ml |
| HR-G0376 | Porcelain Crucible, 30 ml |
| HR-G0377 | Porcelain Crucible, 40 ml |

HR-G0376



Porcelain Buchner Funnels

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------------------|
| HR-G0380 | Porcelain Buchner Funnel, 100 mm |
| HR-G0381 | Porcelain Buchner Funnel, 120 mm |

HR-G0380



TEMPERATURE & TIME MEASUREMENT

HİRA Test supplies high quality Temperature & Time Measurement Products for various material testing applications.

Digital Thermometers

Complete with depth stainless steel probe for temperature measurements of liquid, fluid, semisolid, granular materials and air.

The probe is directly connected to the digital unit.

Technical Specifications:

| Product Code | Product Name | Measurement Range | Resolution (°C) |
|--------------|--|-------------------|-----------------|
| HR-G0385 | Digital Thermometer, 10 cm prob | (-50) – (+300)°C | 0,1 |
| HR-G0384 | Digital Thermometer, 31 cm prob | (-50) – (+300)°C | 0,1 |
| HR-G0386 | Digital Max-Min Thermometer with cable | (-50) + (70)°C | 0,1 |
| HR-G0387 | Digital Max-Min Thermo-Hygrometer with cable | (-50) + (70)°C | 0,1 |
| HR-G0388 | Digital Infrared (Laser) Thermometer | (-50) + (380)°C | 0,1 |



HR-G0388



HR-G0387

HR-G0384



HR-G0385



HR-G0386

Glass Thermometers

Glass Stem and Mercury system for General Laboratory use.

Technical Specifications:

| Product Code | Product Name |
|--------------|-------------------------------|
| HR-G0391 | Glass Thermometer, Max. 110°C |
| HR-G0392 | Glass Thermometer, Max. 360°C |



HR-G0391



HR-G0398

MECHANICAL THERMOMETERS & HYGROMETER & BAROMETER

| Product Code | Product Name | Measurement Range | Resolution (°C) | Dimensions (cm) |
|--------------|------------------------|-------------------|-----------------|-----------------|
| HR-G0396 | Mechanical Thermometer | (-10) – (+110)°C | ± 2 | Ø 2,5 x 12 |
| HR-G0397 | Mechanical Thermometer | (0) – (+120)°C | ± 2 | Ø 5,4 x 13 |
| HR-G0398 | Mechanical Thermometer | (0) – (+250)°C | ± 2 | Ø 5 x 12,5 |
| HR-G0399 | Mechanical Thermometer | (+20) – (+280)°C | ± 2 | Ø 5,4 x 18 |
| HR-G0389 | Manuel Hygrometer | %20 - %100 | --- | --- |
| HR-G0390 | Mechanical Barometer | 940...1060 mb | --- | Ø 10 |



HR-G0396



HR-G0389

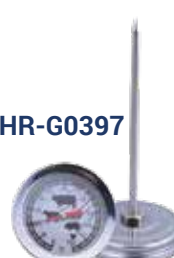


HR-G0390

HR-G0396



HR-G0397



HR-G0399



HİRA TESTING EQUIPMENT

Time Measurement & Calculation

Technical Specifications:

| Product Code | Product Name |
|--------------|--------------------|
| HR-G0395 | Digital Stop Watch |
| HR-G1396 | Calculator |



HR-G1396



HR-G0395

IP & ASTM THERMOMETERS

HİRA Test supplies high quality IP & ASTM Thermometers for various material testing applications.



IP & ASTM THERMOMETERS

Technical Specifications:

| Product Code | IP Ref. | ASTM Ref. | Range (°C) | Graduation | Height (mm) | Immersion (mm) | Dimensions (mm) | Weight (kg) |
|--------------|---------|-----------|---------------|------------|-------------|----------------|-----------------|-------------|
| HR-G1385 | 38C | - | 23 - 27 | 0.1 °C | 260 | Total | 30x30x300 | 0,1 |
| HR-G1386 | 76C | - | 10 - 55 | 0.5 °C | 240 | 93 | 30x30x300 | 0,1 |
| HR-G1387 | 8C | - | 0 - 45 | 0.2 °C | 340 | 65 | 30x30x300 | 0,1 |
| HR-G1388 | 42C | - | -38 - (+30) | 0.5 °C | 370 | 250 | 30x30x300 | 0,1 |
| HR-G1389 | 5C | 7C | -2 - (+300) | 1 °C | 385 | Total | 30x30x300 | 0,1 |
| HR-G1390 | 6C | 8C | -2 - (+400) | 1 °C | 385 | Total | 30x30x300 | 0,1 |
| HR-G1391 | 15C | 9C | -5 - (+110) | 0.5 °C | 290 | 57 | 30x30x300 | 0,1 |
| HR-G1392 | 16C | 10C | 90 - 370 | 2 °C | 290 | 57 | 30x30x300 | 0,1 |
| HR-G1393 | 28C | 11C | -6 - (+400) | 2 °C | 310 | 25 | 30x30x300 | 0,1 |
| HR-G1394 | 47C | 13C | 155 - 170 | 0.5 °C | 155 | Total | 30x30x300 | 0,1 |
| HR-G1395 | 60C | 15C | -2 - (+80) | 0.2 °C | 395 | Total | 30x30x300 | 0,1 |
| HR-G1397 | 61C | 16C | 30 - 200 | 0.5 °C | 395 | Total | 30x30x300 | 0,1 |
| HR-G1398 | - | 17C | 19 - 27 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1399 | - | 18C | 34 - 42 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1400 | - | 19C | 49 - 57 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1401 | - | 20C | 57 - 65 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1402 | - | 21C | 79 - 87 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1403 | - | 22C | 95 - 103 | 0.1 °C | 275 | Total | 30x30x300 | 0,1 |
| HR-G1404 | - | 23C | 18 - 28 | 0.2 °C | 212 | 90 | 30x30x300 | 0,1 |
| HR-G1405 | - | 24C | 39 - 54 | 0.2 °C | 237 | 90 | 30x30x300 | 0,1 |
| HR-G1406 | - | 25C | 95 - 105 | 0.2 °C | 212 | 90 | 30x30x300 | 0,1 |
| HR-G1407 | 20C | 33C | -38 - (+42) | 0.2 °C | 420 | 50 | 30x30x300 | 0,1 |
| HR-G1408 | 59C | 35C | 90 - 170 | 0.2 °C | 420 | 50 | 30x30x300 | 0,1 |
| HR-G1409 | 35C | 47C | 58.6 - 61.4 | 0.05 °C | 305 | Total | 30x30x300 | 0,1 |
| HR-G1410 | - | 38C | 24 - 78 | 0.2 °C | 395 | 100 | 30x30x300 | 0,1 |
| HR-G1411 | - | 57C | -20 - (+50) | 0.5 °C | 287 | 57 | 30x30x300 | 0,1 |
| HR-G1412 | 63C | 63C | -8 - (+32) | 0.1 °C | 395 | Total | 30x30x300 | 0,1 |
| HR-G1413 | 93C | 110C | 133.6 - 136.4 | 0.05 °C | 305 | Total | 30x30x300 | 0,1 |
| HR-G1414 | 89C | 113C | -1 - (+175) | 0.5 °C | 405 | Total | 30x30x300 | 0,1 |

LABORATORY HARDWARE

HİRA Test supplies high quality General Laboratory Hardware Products for various material testing applications.

Calipers

Technical Specifications:

| Product Code | Product Name |
|--------------|-------------------------|
| HR-G0400 | Caliper, 150 mm |
| HR-G0401 | Caliper, 300 mm |
| HR-G0402 | Caliper, 500 mm |
| HR-G0403 | Caliper, 600 mm |
| HR-G0404 | Caliper, 1000 mm |
| HR-G0410 | Digital Caliper, 150 mm |
| HR-G0411 | Digital Caliper, 200 mm |
| HR-G0412 | Digital Caliper, 300 mm |
| HR-G0413 | Digital Caliper, 500 mm |



HR-G0410



HR-G0400

Gloves

Technical Specifications:

| Product Code | Product Name |
|--------------|-----------------------------|
| HR-G0420 | Latex Gloves, Pack of 100 |
| HR-G0421 | Heat Resistant Gloves |
| HR-G0422 | Leather Gloves |
| HR-G0423 | Cotton Gloves |
| HR-G0424 | Rubber Gloves |
| HR-G0425 | Nitrile Gloves. Pack of 100 |

HR-G0424



HR-G0422



HR-G0421



HR-G0420



HR-G0425

HR-G0423

Brushes

Technical Specifications:

| Product Code | Product Name |
|--------------|---|
| HR-G0430 | Bristle brush No.1 |
| HR-G0431 | Bristle brush No.1,5 |
| HR-G0432 | Bristle brush No.2 |
| HR-G0433 | Bristle brush No.2,5 |
| HR-G0434 | Bristle brush No.3 |
| HR-G0435 | Bristle brush No.4 |
| HR-G0440 | Wire brush with handle |
| HR-G0441 | Mini Brush Set with wooden handle. Pack of 3. Nylon/Brass/Stainless Steel. |
| HR-G0442 | Mini Brush Set with plastic handle. Pack of 3. Nylon/Brass/Stainless Steel. |
| HR-G0443 | Brush Set with plastic handle. Pack of 3. Nylon/Brass/Stainless Steel. |
| HR-G0444 | Round Bristle Brush |

Bristle Brushes



HR-G0443



HR-G0440



HR-G0442



HR-G0441



HR-G0443

HİRA TESTING EQUIPMENT



Length Measurement

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0460 | Steel Tape, 3 m |
| HR-G0461 | Steel Tape, 5 m |
| HR-G0465 | Micrometer, Analog, 0-25 x 0,01 mm |
| HR-G0466 | Micrometer, Analog, 25-50 x 0,01 mm |
| HR-G0467 | Micrometer, Digital, 0-25 mm |
| HR-G0470 | Feeler gauge. 20 pieces. 0,05 to 1,00 / 0,05 mm Interval |
| HR-G0475 | Steel Ruler, 150 mm |
| HR-G0476 | Steel Ruler, 300 mm |
| HR-G0477 | Steel Ruler, 500 mm |
| HR-G0478 | Steel Ruler, 1000 mm |
| HR-G0479 | Steel Ruler, 2000 mm |
| HR-G0550 | Precision Knife Straight Edge, Stainless Steel, 75 mm |
| HR-G0551 | Precision Knife Straight Edge, Stainless Steel, 100 mm |
| HR-G0552 | Precision Knife Straight Edge, Stainless Steel, 150 mm |
| HR-G0553 | Precision Knife Straight Edge, Stainless Steel, 200 mm |
| HR-G0554 | Precision Knife Straight Edge, Stainless Steel, 250 mm |
| HR-G0560 | Square Knife Edges, 50x40 mm |
| HR-G0561 | Square Knife Edges, 75x50 mm |
| HR-G0562 | Square Knife Edges, 100x70 mm |
| HR-G0563 | Square Knife Edges, 150x100 mm |
| HR-G0564 | Square Knife Edges, 200x130 mm |
| HR-G0570 | Square with Base, 100x70 mm |
| HR-G0571 | Square with Base, 150x100 mm |
| HR-G0572 | Square with Base, 200x130 mm |
| HR-G0573 | Square with Base, 250x165 mm |
| HR-G0574 | Square with Base, 300x175 mm |
| HR-G0575 | Square with Base, 400x200 mm |
| HR-G0576 | Square with Base, 500x250 mm |
| HR-G0585 | Square Flat, 100x70 mm |
| HR-G0586 | Square Flat, 150x100 mm |
| HR-G0587 | Square Flat, 200x130 mm |
| HR-G0588 | Square Flat, 250x165 mm |
| HR-G0589 | Square Flat, 300x175 mm |
| HR-G0590 | Square Flat, 400x200 mm |
| HR-G0591 | Square Flat, 500x250 mm |
| HR-G0595 | Square, 300x175 mm |

HR-G0467



HR-G0465



HR-G0470

Precision Knife Straight Edges



HR-G0585



Steel Rulers



HR-G0561

HR-G0595



HR-G0571



HR-G0460



HR-G0461

Mixing Bowls

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------------------------|
| HR-G0480 | Mixing Bowl, Stainless Steel, Ø160 mm |
| HR-G0481 | Mixing Bowl, Stainless Steel, Ø180 mm |
| HR-G0482 | Mixing Bowl, Stainless Steel, Ø200 mm |

HR-G0481



HR-G0480



HR-G0482

Moisture Tins

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0615 | Test Cup (Circular Cross Section), EN 1015-19, Ø: 200 x 100 mm |
| HR-G0600 | Moisture Tin with Cover, Aluminum, Ø: 150 x 170 mm |
| HR-G0601 | Moisture Tin with Cover, Aluminum, Ø: 140 x 9,5 mm |
| HR-G0602 | Moisture Tin with Cover, Aluminum, Ø: 120 x 120 mm |
| HR-G0603 | Moisture Tin with Cover, Aluminum, Ø: 125 x 100 mm |
| HR-G0604 | Moisture Tin with Cover, Aluminum, Ø: 105 x 100 mm |
| HR-G0605 | Moisture Tin with Cover, Aluminum, Ø: 100 x 70 mm |
| HR-G0606 | Moisture Tin with Cover, Aluminum, Ø: 80 x 90 mm |
| HR-G0612 | Moisture Tin with Cover, Aluminum, Ø: 80 x 80 mm |
| HR-G0607 | Moisture Tin with Cover, Aluminum, Ø: 80 x 45 mm |
| HR-G0608 | Moisture Tin with Cover, Aluminum, Ø: 70 x 45 mm |
| HR-G0609 | Moisture Tin with Cover, Aluminum, Ø: 60 x 60 mm |
| HR-G0610 | Moisture Tin with Cover, Aluminum, Ø: 55 x 35 mm |
| HR-G0611 | Moisture Tin with Cover, Aluminum, Ø: 45 x 10 mm |



Round Aluminum Scoops

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0620 | Round Aluminum Scoop, Small |
| HR-G0621 | Round Aluminum Scoop, Medium |
| HR-G0622 | Round Aluminum Scoop, Large |
| HR-G0623 | Round Aluminum Scoop, Extra Large |
| HR-G0624 | Round Stainless Steel Scoop, 5 kg of Concrete, EN 12350-1, BS 1881:101 |



Flexible Spatulas

Technical Specifications:

| Product Code | Product Name |
|--------------|--------------------------|
| HR-G0700 | Flexible Spatula, 100 mm |
| HR-G0701 | Flexible Spatula, 150 mm |
| HR-G0702 | Flexible Spatula, 200 mm |

Rigid Spatulas

Technical Specifications:

| Product Code | Product Name |
|--------------|--------------------------|
| HR-G0705 | Rigid Spatula, Small |
| HR-G0706 | Rigid Spatula, Medium |
| HR-G0707 | Rigid Spatula, Large |
| HR-G0708 | Chattaway Spatula. 10 cm |
| HR-G0709 | Chattaway Spatula. 13 cm |
| HR-G0710 | Chattaway Spatula. 15 cm |
| HR-G0711 | Chattaway Spatula. 18 cm |
| HR-G0712 | Chattaway Spatula. 21 cm |



Sample Bags

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------------------|
| HR-G0335 | Sample Bag. Tarpaulin, 25x40 cm |
| HR-G0336 | Sample Bag. Tarpaulin, 40x80 cm |
| HR-G0337 | Sample Bag. Tarpaulin, 50x80 cm |
| HR-G0338 | Sample Bag. Tarpaulin, 60x40 cm |
| HR-G0339 | Sample Bag. Tarpaulin, 50x100 cm |



Mixing Pans

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0630 | Mixing Pan, Stainless Steel, 20x30x4 cm (No.1) |
| HR-G0631 | Mixing Pan, Stainless Steel, 23x33x4 cm (No.2) |
| HR-G0632 | Mixing Pan, Stainless Steel, 26x38x4 cm (No.3) |
| HR-G0633 | Mixing Pan, Stainless Steel, 29x44x4 cm (No.4) |
| HR-G0634 | Mixing Pan, Stainless Steel, 31x48x4 cm(No.5) |
| HR-G0660 | Mixing Pan, Galvanised, 20x20x5 cm |
| HR-G0661 | Mixing Pan, Galvanised, 30x30x5 cm |
| HR-G0662 | Mixing Pan, Galvanised, 40x40x5 cm |
| HR-G0663 | Mixing Pan, Galvanised, 50x50x5 cm |
| HR-G0664 | Mixing Pan, Galvanised, 60x60x5 cm |
| HR-G0665 | Mixing Pan, Galvanised, 100x100x5 cm |
| HR-G0666 | Mixing Pan, Galvanised, 30x30x7 cm |
| HR-G0667 | Mixing Pan, Galvanised, 40x40x7 cm |
| HR-G0668 | Mixing Pan, Galvanised, 50x50x7 cm |
| HR-G0669 | Mixing Pan, Galvanised, 60x60x7 cm |
| HR-G0670 | Mixing Pan, Galvanised, 100x100x7 cm |
| HR-G0671 | Mixing Pan, Galvanised, 30x30x8 cm |
| HR-G0672 | Mixing Pan, Galvanised, 40x40x8 cm |
| HR-G0673 | Mixing Pan, Galvanised, 50x50x8 cm |
| HR-G0674 | Mixing Pan, Galvanised, 60x60x8 cm |
| HR-G0675 | Mixing Pan, Galvanised, 100x100x8 cm |
| HR-G0676 | Mixing Pan, Galvanised, 40x40x10 cm |
| HR-G0677 | Mixing Pan, Galvanised, 50x50x10 cm |
| HR-G0678 | Mixing Pan, Galvanised, 60x60x10 cm |
| HR-G0679 | Mixing Pan, Galvanised, 100x100x10 cm |
| HR-G0635 | Mixing Pan, Stainless Steel, 20x20x5 cm |
| HR-G0636 | Mixing Pan, Stainless Steel, 30x30x5 cm |
| HR-G0637 | Mixing Pan, Stainless Steel, 40x40x5 cm |
| HR-G0638 | Mixing Pan, Stainless Steel, 50x50x5 cm |
| HR-G0639 | Mixing Pan, Stainless Steel, 60x60x5 cm |
| HR-G0640 | Mixing Pan, Stainless Steel, 100x100x5 cm |
| HR-G0641 | Mixing Pan, Stainless Steel, 30x30x7 cm |
| HR-G0642 | Mixing Pan, Stainless Steel, 40x40x7 cm |
| HR-G0643 | Mixing Pan, Stainless Steel, 50x50x7 cm |
| HR-G0644 | Mixing Pan, Stainless Steel, 60x60x7 cm |
| HR-G0645 | Mixing Pan, Stainless Steel, 100x100x7 cm |
| HR-G0646 | Mixing Pan, Stainless Steel, 30x30x8 cm |
| HR-G0647 | Mixing Pan, Stainless Steel, 40x40x8 cm |
| HR-G0648 | Mixing Pan, Stainless Steel, 50x50x8 cm |
| HR-G0649 | Mixing Pan, Stainless Steel, 60x60x8 cm |
| HR-G0650 | Mixing Pan, Stainless Steel, 100x100x8 cm |
| HR-G0651 | Mixing Pan, Stainless Steel, 40x40x10 cm |
| HR-G0652 | Mixing Pan, Stainless Steel, 50x50x10 cm |
| HR-G0653 | Mixing Pan, Stainless Steel, 60x60x10 cm |
| HR-G0654 | Mixing Pan, Stainless Steel, 100x100x10 cm |

HR-G0664



HR-G0662



HR-G0663



HR-G0661



Stainless Steel Mixing Pans

General

Technical Specifications:

| Product Code | Product Name |
|--------------|----------------------------------|
| HR-G0715 | Crucible Tong, 250 mm |
| HR-G0716 | Crucible Tong, 300 mm |
| HR-G0717 | Crucible Tong, 450 mm |
| HR-G0720 | Tong |
| HR-G0725 | Water Level, 60 cm |
| HR-G0726 | Water Level, 100 cm |
| HR-G0730 | Coarse Filter Paper, Pack of 250 |
| HR-G0731 | Adjustable Pliers |
| HR-G0732 | Clipper |
| HR-G0733 | Flat Screwdriver |
| HR-G0734 | Fillister Head Screwdriver |
| HR-G0735 | Allen Wrench Set |
| HR-G0736 | Knife |
| HR-G0737 | Pick |
| HR-G0738 | Sampling Spoon |
| HR-G0739 | Ladle, Stainless Steel |
| HR-G0740 | Trowel |
| HR-G0741 | Rectangular Trowel |



HR-G0716



HR-G0720



HR-G0725



HR-G0730



HR-G0731



HR-G0732



HR-G0733



HR-G0734



HR-G0735



HR-G0736



HR-G0737



HR-G0738



HR-G0739



HR-G0740



HR-G0741

HİRA TESTING EQUIPMENT

| Product Code | Product Name |
|--------------|-----------------------------------|
| HR-G0742 | Steel Hammer, 0,5 kg |
| HR-G0743 | Steel Hammer, 1 kg |
| HR-G0744 | Steel Hammer, 1,5 kg |
| HR-G0745 | Steel Hammer, 2 kg |
| HR-G0746 | Sledge Hammer, 3 kg |
| HR-G0747 | Sledge Hammer, 5 kg |
| HR-G0748 | Rubber Mallet |
| HR-G0749 | Shovel |
| HR-G0750 | Broach with Plastic Handle, 30 cm |
| HR-G0751 | Chisel |
| HR-G0752 | Bill |
| HR-G0753 | Open Wire Saw |
| HR-G0754 | Wire. Pack of 12 |
| HR-G0755 | Trimming Knife |
| HR-G0756 | Hand Lamp |
| HR-G0757 | Iron Wire Gauze, 12x12 cm |
| HR-G0758 | Iron Wire Gauze, 16x16 cm |
| HR-G0759 | Laboratory Trolley |
| HR-G0760 | Wheel Barrow |
| HR-G0761 | Tool Kit |

HR-G0744



HR-G0746



HR-G0749



HR-G0748



HR-G0751



HR-G0750



HR-G0753 with HR-G0754



HR-G0752



HR-G0755



HR-G0756



HR-G0757



HR-G0761



HR-G0759



HR-G0760



COOKTOP STOVE

Two, Three or Four Eyed Set-Top Cookers used in for sample drying processes are available with natural gas or LPG cylinder options.

2 kg or 12 kg Tube, Decanter Set and Tube Head for 2 kg Tube should be ordered separately for LPG Cylinder compatible furnaces.

Technical Specifications:

| Product Code | Product Name |
|--------------|------------------------------|
| HR-G0770 | Two Eyed Gas Cooktop Stove |
| HR-G0771 | Three Eyed Gas Cooktop Stove |
| HR-G0772 | Four Eyed Gas Cooktop Stove |
| HR-G0773 | Two Eyed Lpg Cooktop Stove |
| HR-G0774 | Three Eyed Lpg Cooktop Stove |
| HR-G0775 | Four Eyed Lpg Cooktop Stove |

Spare Parts & Accessories:

| Product Code | Product Name |
|--------------|-------------------------|
| HR-G0777 | Tube, 2 kg |
| HR-G0777/1 | Tube Head for 2 kg Tube |
| HR-G0778 | Tube, 12 kg |
| HR-G0778/1 | Decanter Set |



HR-G0770



HR-G0772



HR-G0778

HR-G0777



HR-G0778/1

HR-G0771



BUNSEN BURNER

HR-G0765 Model Bunsen Burner can be used with all gases; natural gas, air gas and butane gas.

It is equipped with a control ring for air and gas flow velocities, allowing precise control of the flame force at the lowest and highest levels.

Tripod is manufactured from metal. It is used to keep the glass materials above fire. Should be ordered separately.

HR-G0766 Model Multipurpose Portable Bunsen Burner offers practical and suitable solutions in laboratories with limited or no gas connection possibilities. It allows precise control of the flame force. The perforated design gas outlet grille acts as a balancer that allows the gas to exit at low speed at the first exit. The lighter on the Bunsen burner provides easy use. It can burn for 4-6 hours with 190 gr cartridge. Gas cartridge should be ordered separately.

Technical Specifications:

| Product Code | Product Name |
|--------------|------------------------|
| HR-G0765 | Bunsen Burner |
| HR-G0766 | Portable Bunsen Burner |

Spare Parts & Accessories:

| Product Code | Product Name |
|--------------|-----------------------|
| HR-G0765/1 | Tripod, 150 mm |
| HR-G0766/1 | Gas Cartridge, 190 gr |



HR-G0766

HR-G0765/1



HR-G0766/1



HR-G0765

VACUUM PUMPS

HİRA Test supplies high quality Single and Dual Stage Vacuum Pumps for various material testing applications.

The Vacuum Pumps is more Reliable and has a Higher Ultimate Vacuum property.

The devices equipped with Forced Oil Cycling System, Integrated Body Structure and has a Big Sight Glass.

Technical Specifications:

| Product Code | Product Name |
|--------------|--------------------------------------|
| HR-G0800 | Vacuum Pump, Single Stage, 51 l/min |
| HR-G0801 | Vacuum Pump, Single Stage, 70 l/min |
| HR-G0802 | Vacuum Pump, Single Stage, 100 l/min |
| HR-G0803 | Vacuum Pump, Single Stage, 170 l/min |
| HR-G0805 | Vacuum Pump, Dual Stage, 42 l/min |
| HR-G0806 | Vacuum Pump, Dual Stage, 70 l/min |
| HR-G0807 | Vacuum Pump, Dual Stage, 128 l/min |
| HR-G0808 | Vacuum Pump, Dual Stage, 170 l/min |
| HR-G0809 | Vacuum Pump, Dual Stage, 226 l/min |



HR-G0816



HR-G0801

Spare Parts & Accessories:

| Product Code | Product Name |
|--------------|---|
| HR-G0815 | Tubing for Vacuum, 1,5 m |
| HR-G0816 | Vacuum Gauge Manometer, 1000 mbar, Ø63 mm |

Technical Specifications for Single Stage Vacuum Pumps

| Product Code | | HR-G0800 | HR-G0801 | HR-G0802 | HR-G0803 |
|--------------------|-------------------------|---------------------|---------------------|----------------------|--------------------|
| Flow Rate | 50 Hz | 1,8 CFM 51 l/min | 2,5 CFM 70 l/min | 3,5 CFM 100 l/min | 6 CFM 170 l/min |
| | 60 Hz | 2 CFM 57 l/min | 3 CFM 84 l/min | 4 CFM 113 l/min | 7 CFM 198 l/min |
| Ultimate Vacuum | Partial Pressure (Pa) | 2 | 2 | 2 | 2 |
| | Total Pressure (micron) | 150 | 150 | 150 | 150 |
| Power (HP) | | ¼ | ¼ | 1/3 | ½ |
| Inlet Port (Flare) | | ¼" | ¼" | ¼" & 3/8" | ¼" & 3/8" |
| Oil Capacity (ml) | | 250 ml | 250 ml | 250 ml | 415 ml |
| Dimensions (mm) | | 290x124x224 | 290x124x224 | 318x124x234 | 338x138x244 |
| Weight(kg) | | 6,6 | 7,1 | 8 | 9,9 |

Technical Specifications for Dual Stage Vacuum Pumps

| Product Code | | HR-G0805 | HR-G0806 | HR-G0807 | HR-G0808 | HR-G0809 |
|--------------------|-------------------------|---------------------|---------------------|----------------------|--------------------|--------------------|
| Flow Rate | 50 Hz | 1,5 CFM 42 l/min | 2,5 CFM 70 l/min | 4,5 CFM 128 l/min | 6 CFM 170 l/min | 8 CFM 226 l/min |
| | 60 Hz | 1,8 CFM 50 l/min | 3 CFM 84 l/min | 5 CFM 142 l/min | 7 CFM 198 l/min | 9 CFM 254 l/min |
| Ultimate Vacuum | Partial Pressure (Pa) | 2x10 ⁻¹ | 2x10 ⁻¹ | 2x10 ⁻¹ | 2x10 ⁻¹ | 2x10 ⁻¹ |
| | Total Pressure (micron) | 15 | 15 | 15 | 15 | 15 |
| Power (HP) | | ¼ | 1/3 | ½ | ¾ | 1 |
| Inlet Port (Flare) | | ¼" | ¼" | ¼" & 3/8" | ¼" & 3/8" | ¼" & 3/8" |
| Oil Capacity (ml) | | 200 ml | 200 ml | 325 ml | 580 ml | 500 ml |
| Dimensions (mm) | | 318x124x234 | 318x124x234 | 338x138x244 | 395x145x257 | 395x145x257 |
| Weight(kg) | | 8,5 | 8,5 | 10,4 | 15,8 | 16,2 |

AIR COMPRESSORS

HİRA Test supplies high quality Laboratory Air Compressors for various material testing applications.

The devices are durable machines for supplying compressed air required by several analysis in material testing.

Technical Specifications:

| Product Code | Product Name | Capacity (lt) | Max. Working Pressure (bar) | Air Suction Capacity (lt/min) | Dimensions (cm) | Weight (kg) | Power Supply |
|--------------|-------------------|---------------|-----------------------------|-------------------------------|-----------------|-------------|--------------------|
| HR-G0825 | Air pressure Pump | 25 | 8 | 192 | 60x30x60 | 30 | 220 V, 50 Hz |
| HR-G0826 | Air pressure Pump | 50 | 8 | 192 | 60x30x60 | 40 | 220 V, 50 Hz |
| HR-G0828 | Air pressure Pump | 100 | 8 | 250 | 100x40x70 | 62 | 220 V, 50 Hz, 2 hp |
| HR-G0829 | Air pressure Pump | 100 | 10 | 210 | 105x45x75 | 69 | 230 V, 50 Hz, 2 hp |
| HR-G0830 | Air pressure Pump | 200 | 8 | 370 | 146x47x86 | 98 | 220 V, 50 Hz |

Spare Parts & Accessories:

| Product Code | Product Name |
|--------------|------------------|
| HR-G0831 | Spiral Air Hose |
| HR-G0832 | Air-Cleaning Gun |
| HR-G0833 | Check Valve |



HR-G0829



HR-G0825



HR-G0828

HR-G0831



HR-G0830



HR-G0832



HR-G0833

PH METERS

HİRA Test supplies high quality pH Meters for various material testing applications.

The Pocket Type pH meter is microprocessor based pH tester, assure to produce fast and stable readings. It also comes with features such as automatic temperature compensation, large and easy to read LCD screen, low battery indication, automatic shut-off after 8 minutes and others.

The Pocket Type pH meter is incorporated with easy push buttons for automatic calibration and splash proof keypad that prevents water infiltration.

Supplied in a carton box complete with protective cap, calibration solution in sachets (pH 7 and pH 4, 20 ml each), 4 x 1.5V batteries and user manual.

The Portable pH meter is a compact pH meter featuring automatic pH calibration, Hold function, low battery indication, temperature measurement and compensation. In addition, can measure in the mV range.

The Portable pH meter is 2 points push-button calibration with auto-buffer recognition in 3 points (pH 4.01, pH 7.01 and pH 10.01).

Auto-off after 8 minutes of non-use conserves energy and lengthens battery life-span.

Supplied complete with A1230B pH electrode with Epoxy body, BNC connector and 1 m cable, stainless steel temperature probe, pH 4.01 and pH 7.01 calibration buffers (20 ml each), batteries (4 x 1.5V AA alkaline) and instruction manual.

The Laboratory pH Meter is a professional bench meter for pH, ORP (Oxidation Reduction Potential) and temperature measurements. Relative mV readings are also provided.

Up to 5-point calibration with 7 memorized buffers (pH 1.68, 4.01, 6.86, 7.01, 9.18, 10.01 & 12.45) and 2 custom buffers, Calibration time-out alarm.

Supplied complete with A1131B refillable pH electrode and 1 m cable, A7662 stainless steel temperature probe, pH 4.01 & pH 7.01 calibration buffers (20 ml each), batteries (4 x AA alkaline) and instruction manual.

Technical Specifications:

| Product Code | Product Name |
|--------------|---------------------------------------|
| HR-G0850 | Pocket Type pH Meter |
| HR-G0852 | Portable pH Meter |
| HR-G0854 | Laboratory pH Meter |
| HR-G0857 | pH Indicator Papers, pH Range: 0-14 |
| HR-G0858 | pH meter Calibration Solution, 100 ml |
| HR-G0859 | pH meter Calibration Solution, 250 ml |
| HR-G0860 | pH meter Calibration Solution, 500 ml |



HR-G0857



Technical Specifications:

| Product Code | HR-G0850 | HR-G0852 | HR-G0854 |
|-------------------|------------------|------------------|------------------|
| Measurement Range | | | |
| Ph | -2.0 ... 16.0 pH | -2.0 ... 16.0 pH | -2.0 ... 16.0 Ph |
| mV | --- | ± 1000 mV | ± 2000 mV |
| °C | -5 to 60 °C | -5 to 105 °C | -20 to 120 °C |
| Sensitivity | | | |
| Ph | ± 0,1 pH | ± 0,02 Ph | ± 0,002 Ph |
| mV | --- | ± 2 mV | ± 0,2 Mv |
| °C | ± 0,5 °C | ± 0,5 °C* | ± 0,4 °C |
| Resolution | | | |
| Ph | 0,1 Ph | 0,01 Ph | 0,001 Ph |
| mV | --- | 1 mV | 0,1 Mv |
| °C | 0,1 °C | 0,1 °C | 0,1 °C |

HR-G0858



HR-G0850



HR-G0852

*±0.5°C (up to 60°C), ±1°C (after 60°C)

DIGITAL LASER MEASURES

The Laser Rangefinders are equipped with state-of-the-art laser technology.

They provide measurements with ultimate precision and reliability because one thing is certain: nothing is more precise than measuring with a laser.

The exact measurement point is displayed at distances of up to 25 m or 50 m thanks to the laser point. The large display makes all measurement results easy to read. The option of measuring from the front or back edge makes it possible to also use the devices in hard-to-reach areas. The non-slip soft grip sits securely in your hand. The integrated targeting aid helps you to aim at the target over longer distances. Practical function buttons with self-explanatory symbols make the instrument easier to operate, for example when calculating areas and volumes.

Complete with 4 x 1,5 V LR03 (AAA) batteries, Hand loop, Protective case.

Technical Specifications:

| Product Code | Product Name |
|--------------|-----------------------------|
| HR-G0840 | Digital Laser Measure, 25 m |
| HR-G0841 | Digital Laser Measure, 50 m |

Technical Specifications:

| Product Code | HR-G0840 | HR-G0841 |
|------------------------------------|----------------------|----------------------|
| Laser diode (nm) | 635 | 635 |
| Laser class | 2 | 2 |
| Measurement range (m) | 0,05 – 25 | 0,05 – 50,00 |
| Measurement accuracy, typical (mm) | ± 2,0 | ± 2,0 |
| Measurement time, typical (s) | 0,5 | 0,5 |
| Max. Measurement time (s) | 4 | 4 |
| Automatic deactivation (mins) | 5 | 5 |
| Dimension (mm) | 100 x 55 x 25 | 104 x 58 x 36 |
| Weight (kg) | 0,09 | 0,13 |
| Battery | 2 x 1.5 V LR03 (AAA) | 3 x 1.5 V LR03 (AAA) |



HR-G0840



HR-G0841

DIAL GAUGES

Dial Gauges are essential instruments that are used to measure accurately very small and diminutive liner distances.

HİRA Test supplies high quality Dial Gauge for various material testing applications.

Technical Specifications:

| Product Code | Product Name |
|--------------|---|
| HR-G0875 | Analog Dial Indicator, 10 x 0,01 mm |
| HR-G0876 | Analog Dial Indicator, 30 x 0,01 mm |
| HR-G0877 | Digital Dial Indicator, 12,7 x 0,01 mm |
| HR-G0878 | Digital Dial Indicator, 25 x 0,01 mm |
| HR-G0879 | Digital Dial Indicator, 12.7 x 0,001 mm |
| HR-G0880 | Digital Dial Indicator, 25 x 0,001 mm |
| HR-G0885 | Adjustable Dial Gauge Holder |



HR-G0885



HR-G0876



HR-G0877



HR-G0879

LOAD RINGS

HİRA Test supplies high quality Load Rings for various material testing applications.

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G5000 | Load Ring, 5 kN capacity with 0,01 mm resolution Analog Dial Gauge |
| HR-G5001 | Load Ring, 10 kN capacity with 0,01 mm resolution Analog Dial Gauge |
| HR-G5002 | Load Ring, 28 kN capacity with 0,01 mm resolution Analog Dial Gauge |
| HR-G5003 | Load Ring, 50 kN capacity with 0,01 mm resolution Analog Dial Gauge |
| HR-G5004 | Load Ring, 100 kN capacity with 0,01 mm resolution Analog Dial Gauge |
| HR-G5005 | Load Ring, 5 kN capacity with 0,001 mm resolution Digital Dial Gauge |
| HR-G5006 | Load Ring, 10 kN capacity with 0,001 mm resolution Digital Dial Gauge |
| HR-G5007 | Load Ring, 28 kN capacity with 0,001 mm resolution Digital Dial Gauge |
| HR-G5008 | Load Ring, 50 kN capacity with 0,001 mm resolution Digital Dial Gauge |
| HR-G5009 | Load Ring, 100 kN capacity with 0,001 mm resolution Digital Dial Gauge |
| HR-G5010 | Load Ring, 5 kN capacity with 0,01 mm resolution Digital Dial Gauge |
| HR-G5011 | Load Ring, 10 kN capacity with 0,01 mm resolution Digital Dial Gauge |
| HR-G5012 | Load Ring, 28 kN capacity with 0,01 mm resolution Digital Dial Gauge |
| HR-G5013 | Load Ring, 50 kN capacity with 0,01 mm resolution Digital Dial Gauge |
| HR-G5014 | Load Ring, 100 kN capacity with 0,01 mm resolution Digital Dial Gauge |



RAIN GAUGE (PLUVIOMETER)

A practical rain gauge for easy and accurate determination of rainfall amounts.

It is made of high-grade and stable plastic with integrated holder. It is durable and resistant to weather conditions.

There is no stud bar, it can only be hung. In order for the result to be as accurate as possible, the rain gauge should be placed on a suitable rod at a height of about one meter above ground. It should stand upright and free from obstructions such as buildings or trees.

Technical Specifications:

| Product Code | Product Name | Dimensions (mm) | Weight (gr) |
|--------------|--------------|-----------------|-------------|
| HR-G0845 | Rain Gauge | 81x128x203 | 112 |



HR-G0845

WATER STILL

Used to produce distilled water for laboratory purposes, they are equipped with an automatic device to keep the water at a constant level and to cut off the current in case of shortage of water.

Technical Specifications:

| Product Code | Product Name | Capacity (l/h) | Power Supply |
|--------------|--------------|----------------|-----------------------|
| HR-G0950 | Water Still | 4 | 220 V, 50 Hz, 1 ph |
| HR-G0951 | Water Still | 6 | 380 V, 50-60 Hz, 3 ph |
| HR-G0952 | Water Still | 7 | 380 V, 50-60 Hz, 3 ph |
| HR-G0953 | Water Still | 8 | 380 V, 50-60 Hz, 3 ph |
| HR-G0954 | Water Still | 10 | 380 V, 50-60 Hz, 3 ph |
| HR-G0955 | Water Still | 12 | 380 V, 50-60 Hz, 3 ph |
| HR-G0956 | Water Still | 14 | 380 V, 50-60 Hz, 3 ph |



HR-G0952

CHEMICALS

Technical Specifications:

| Product Code | Product Name |
|--------------|--|
| HR-G0900 | Mercury. 100 gr |
| HR-G0901 | Trichloroethylene. 5 lt |
| HR-G0902 | Trichloroethylene. 20 kg |
| HR-G0903 | Trichloroethylene. 50 kg |
| HR-G0904 | Trichloroethylene. 30 lt |
| HR-G0905 | Trichloroethylene. 50 lt |
| HR-G0906 | Trichloroethylene Can for 30 lt |
| HR-G0907 | Trichloroethylene Can for 60 lt |
| HR-G0908 | Trichloroethylene. (1 barrel=300kg) |
| HR-G0909 | Silver Nitrate. 100 g |
| HR-G0910 | Potassium Nitrate. 1 kg |
| HR-G0911 | Potassium Chromate. 1 kg |
| HR-G0912 | Graphite. 1 kg |
| HR-G0913 | Graphite. 25 kg |
| HR-G0914 | Sulphur. 1 kg |
| HR-G0915 | Sulphur. 25 kg |
| HR-G0916 | Sodium Hydroxide, 1 kg |
| HR-G0916/A | Sodium Hydroxide, 25 kg |
| HR-G0917 | Sodium Hydroxide, 1 kg (MERCK) |
| HR-G0918 | Sodium Sulphate, 1 kg |
| HR-G0919 | Sodium Sulphate, 50 kg |
| HR-G0920 | Barium Chloride. 1 kg |
| HR-G0921 | Potassium Hydroxide, 1 kg (MERCK) |
| HR-G0922 | Distilled Water. 5 lt |
| HR-G0923 | Ethyl alcohol. 5 lt |
| HR-G0924 | Hydrochloric Acid. 1 lt |
| HR-G0925 | Sulphuric acid. 1 lt |
| HR-G0926 | Kaolinite, 500 gr |
| HR-A0400/5 | Methylene Blue. 100 gr |
| HR-G0927 | Crystal Calcium Chloride. 1 kg |
| HR-G0929 | Glycerin. 5 kg |
| HR-G0930 | Sodium hexametaphosphate. 1 kg |
| HR-G0931 | Formaldehyde. 1 lt |
| HR-G0932 | Paraffin Wax. 1 kg |
| HR-G0933 | Magnesium Sulphate. 1 kg |
| HR-G0934 | Magnesium Sulphate. 25 kg |
| HR-G0935 | Silica Gel. 1 kg |
| HR-G0936 | Lithium Chloride. 250 gr (MERCK) |
| HR-CE9285 | Standard sand 1350gr |
| HR-S6050 | Special Sand for Sand Replacement Tests. 1 kg Between 300-600 micron grain size |
| HR-S6055 | Special Sand for Sand Replacement Tests. 1 kg Between 1,18 mm-600 micron grain size |



Note: Several chemicals classified as dangerous, cannot be supplied for shipping safety problems.

HİRA TESTING EQUIPMENT

WATER TEST KIT

Total Water Hardness Test Kit is supplied with Indicator, Titration Solution, Titration Vessel and Prospectus.

pH Test Kit is supplied with pH Indicator, Colour Scale and Prospectus.

Free Chlorine Test Kit is supplied with Chlorine Indicator, Chlorine Colour Scale and Prospectus.

Chloride Test Kit is supplied with 1 bottle Chloride Indicator Solution, 1 bottle Chloride Titration Solution, Test Tube and Prospectus.

Alkalinity Test Kit is supplied with Titration Solution, Indicator, Test Tube and Prospectus.

Technical Specifications:

| Product Code | Product Name | Sensitivity |
|--------------|-------------------------------|--|
| HR-G1900 | Total Water Hardness Test Kit | 1 drop= 1Fr hardness 1 drop= 1Hd hardness |
| HR-G1901 | pH Test Kit | 6,8 - 8,2 ph |
| HR-G1902 | Free Chlorine Test Kit | 0,1-3 ppm Chlorine |
| HR-G1903 | Chloride Test Kit | 1 drop= 30 ppm Cl |
| HR-G1904 | Alkalinity Test Kit | 1 drop= 50 ppm |

HR-G1904



HR-G1903



HR-G1902



HR-G1901



HR-G1900

HAMMER DRILL

Technical Specifications:

| Product Code | HR-G0835 | HR-G0836 |
|---------------------------------------|--------------|--------------|
| Product Name | Hammer Drill | Hammer Drill |
| Rated Power Input (W) | 650 | 500 |
| Output Power (W) | 338 | 260 |
| No-load Speed (min ⁻¹) | 50 – 3.000 | 50 – 3.000 |
| Impact Rate (min ⁻¹) | 48000 | 33000 |
| Rated Torque (Nm) | 1,7 | 1,1 |
| Torque at max. Output Power (Nm) | 9 | 7,5 |
| Max. Drilling Diameter (mm) | | |
| - Concrete | 14 | 10 |
| - Steel | 12 | 8 |
| - Wood | 30 | 25 |
| Weight without extraction device (kg) | 1,7 | 1,6 |



HR-G0835



HR-G0836

MOBILE DUST & EXTRACT SYSTEM

This type of Mobile Dust & Extract Systems are usually used as the dust suction system of the such as CNC, banding and sizing machines etc.

Thanks to the wheeled metal bucket, the accumulated sawdust can be easily discharged.

Its Vibration engine is time controlled so It activates for a minute in half an hour and provides convenience in filter cleaning.

Technical Specifications:

| | |
|------------------------------------|------------------------|
| Product Code | HR-G6400 |
| Flow | 5000 m ³ /h |
| Engine Power | 5.5 kw 7,5 hp 3000d/d |
| Extraction Speed | 28 m/sn |
| Extraction Diameter | Ø280 mm |
| Filter Type | Needle Polyester |
| Filter Permeability: | 5 micron |
| Filter Measure | Ø160x935 mm |
| Filter Piece | 35 Pieces |
| Capatiy of gathering sawdust/swarf | 2 metal buckets |
| Power Supply | 380 V |
| Dimensions | 925x1985x2280 mm |
| Weight | 350 kg |



HR-G6400

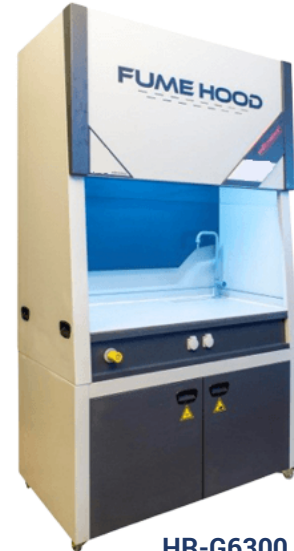
FUME HOOD

Fume Hoods, which form the basis of modern laboratories, are used for the realization of sensitive tests, but can also be used to remove potentially dangerous aerosols.

The Fume Hoods are the device that assigns harmful air to the outdoors with an evacuation system that can remove gases such as acid vapor and heat processes during operation.

Optional Specifications:

- Production of special sizes and different features.
- Dashboard controlled gas, flammable gas and water fittings for use in the aspirator cabinet can be placed according to the user's request.
- Material cabinet that can be used with the device.
- Automatic on and off windshield.



HR-G6300

Technical Specifications:

| Product Code | HR-G6300 | HR-G6301 | HR-G6302 | HR-G6303 |
|--|---|------------|----------------|----------------|
| Cabinet Dimensions (cm) | 86x65x97 | 116x65x97 | 146 x 65 x 97 | 176 x 65 x 97 |
| External Dimensions (cm) | 90x75x230 | 120x75x230 | 150 x 75 x 230 | 180 x 75 x 230 |
| Fan - Air suction engine (m ³) | 1080 | 1080 | 1250 | 1450 |
| Fan - Air suction engine | Made of acid and water vapor resistant PP (Polypropylene) material. | | | |
| Working Floor | Anti-acid Compact Laminant, Stainless, PP Polypropylene, G LAB, Ceramic, Stonwear Ceramic | | | |
| In-Cab Lighting | It is provided by fluorescent lamp. It is not affected by chemical vapours. | | | |
| Acoustic | Noise doesn't cause pollution during operation, the volume is less than 60 db. | | | |
| Cabin Glass | Motorised Control | | | |

HİRA TESTING EQUIPMENT



LABORATORY STORAGE CABINET FOR CHEMICALS

The chemical and solvents in the laboratory release toxic gas over time, even if they are in closed containers. This has very harmful consequences for users. Such chemicals should be stored in special cabinets in terms of laboratory standards and occupational safety.

It plays an important role in applications made in chemicals and microbiological laboratories. The chemical risk can be reduced by minimizing the amount of chemicals used in applications. However, the chemical risk is greatly reduced by proper storage and use of stored chemicals. Standard storage features require determination of combustion control, temperature, ventilation, separate eclipse and labelling. It minimizes the risk of each chemical being flammable, toxic or polluting the environment when storing harmful chemicals. Chemical storage safety stores provide an effective solution in working with harmful chemicals in laboratories and workshops.

The main body and interior are made of steel. Electrostatic epoxy powder painted on steel. It has two doors. Locked cover system is available.

All cabinet interior ventilation panels are double-walled. There is a 150 mm ventilation outlet for ventilation connection.

It has sealed gasket system. There is sealing system with telescopic rail system.

Supplied with 4 metal shelves. Optionally, the front panel can be made of acrylic glass.



HR-G6455

Technical Specifications:

| Product Code | Product Name | Dimensions (cm) | Weight (kg) |
|--------------|--|-----------------|-------------|
| HR-G6450 | Laboratory Storage Cabinet for Chemicals | 50x60x195 | 75 |
| HR-G6455 | Laboratory Storage Cabinet for Chemicals | 90x60x195 | 90 |

MOBILE LABORATORY

HİRA TEST manufactures a complete range of Mobile Laboratories as: Van-mounted mobile laboratory or Container mounted laboratory.

Both of small or large dimensions, by supplying also the mobile structure, benching, furniture, generators, air conditioning, electronic and plumbing installation etc; or by simply fixing the Testing Equipment on the mobile structure supplied by the customer.

Supplied complete with Electrical Installation, Plumbing, kitchen Cabinet and Kitchen Bench.

Technical Specifications:

| Product Code | Product Name | Dimensions (m) |
|--------------|--------------|----------------|
| HR-M0001 | Container | 3x7 |

*Different size are available, please contact with us.



HR-M0001

