



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.

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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

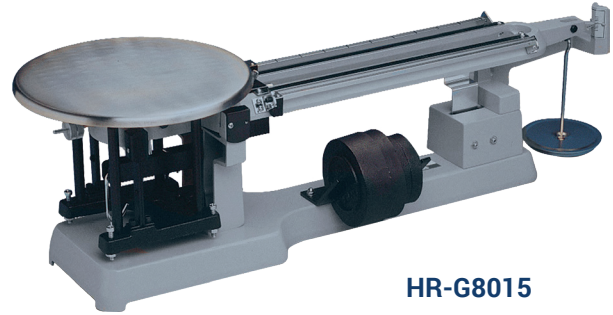
Technical Specifications:

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

HEAVY DUTY MECHANICAL BALANCE

Durable enough to resist corrosion, this precise balance also weighs with a feather touch, down to 1 g over the whole weighing range - even under the most demanding conditions.

- **Applications**
Weighing
- **Display**
Front and rear indicator plate
- **Operation**
N/A
- **Communication**
N/A
- **Construction**
Metal base and beam, stainless steel pan
- **Design Features**
Large dial face



HR-G8015

Technical Specifications:

Product Name	Heavy Duty Mechanical Balance
Product Code	HR-G8015
Maximum Capacity (g)	20
Readability (g)	1
Platform Size	11 in (279 mm)
Platform Construction	Painted Steel
Dimensions (mm)	279 x 279 x 254
Net Weight (kg)	19



HİRA TESTING EQUIPMENT

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 weightment records. It ensures security of constant data register in the long time period.

Technical Specifications:

Product Name	Electronic Precision Balance			
Product Code	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			
Product Code	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 weighing 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 backlit 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-G8045	HR-G8085	HR-G8090	HR-G8095	HR-G8100	HR-G8100/S	HR-G8105	HR-G8105/S	HR-G8110
Product Name	Digital Balance								
Max capacity (gr)	500	600	3000	5000	6000	6000	30000	30000	30000
Readability (g)	0,001	0,01	0,01	0,01	0,1	0,1	0,5	0,5	0,1
Working temperature (°C)	(±0) – (±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 120	Ø 160	Ø 160	270x210	270x210	270x210	270x210	270x210
Net weight/Gross weight (kg)	4				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)	(±0) – (±40)						
Power supply	Rechargeable Battery and External Power Adaptor / 220 V, 50 Hz, 1 ph						
Adjustment/Calibration	external						
Display	LCD						



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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)	(+) – (+ 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

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)



HR-G8160



HR-G8160

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 E1-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	Cast Iron	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-G7036

HR-G7035

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 E1-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

HR-G7160



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

Spare Parts & Accessories for Class E1-E2 Calibration Weights:

Product Code	Product Name
HR-G7157/1	Plastic Box for 1 mg - 500 g, Class E1-E2, Stainless Steel Calibration Weight
HR-G7158/1	Plastic Box for 1 kg, Class E1-E2, Stainless Steel Calibration Weight
HR-G7159/1	Plastic Box for 2 kg, Class E1-E2, Stainless Steel Calibration Weight
HR-G7160/1	Plastic Box for 5 kg, Class E1-E2, Stainless Steel Calibration Weight
HR-G7161/1	Plastic Box for 10 kg, Class E1-E2, Stainless Steel Calibration Weight
HR-G7162/1	Plastic Box for 20 kg, Class E1-E2, Stainless Steel Calibration Weight
HR-G7163/1	Plastic Box for 50 kg, Class E1-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

LABORATORY GLASSWARE

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

Glass Measuring Cylinders

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

HR-G0023



HR-G0022

HR-G0021

Glass Beakers

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

HR-G0008

HR-G0006



HR-G0005

HR-G0007

HR-G0009

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



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

HR-G0103



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

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

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



PLASTIC LABORATORY PRODUCTS

HIRA 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



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



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



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)



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



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



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



Porcelain Buchner Funnels

Technical Specifications:

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



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



Time Measurement & Calculation

Technical Specifications:

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



HR-G1396



HR-G0395

LABORATORY HARDWARE

HIRA 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

HR-G0424



HR-G0422



HR-G0421



HR-G0425

HR-G0420



HR-G0423

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

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.

Bristle Brushes



HR-G0442



HR-G0443



HR-G0440



HR-G0441

HİRA TESTING EQUIPMENT

Length Measurement

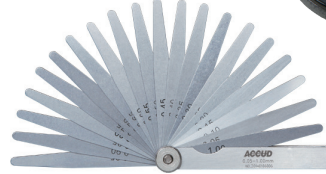
Technical Specifications:

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

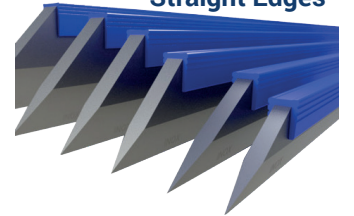


HR-G0465



HR-G0470

Precision Knife Straight Edges



HR-G0585



Steel Rulers



HR-G0561

HR-G0595



HR-G0571



HR-G0460



HR-G0461

Mixing Bowls

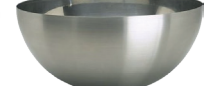
Technical Specifications:

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-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



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-G0663



HR-G0662



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



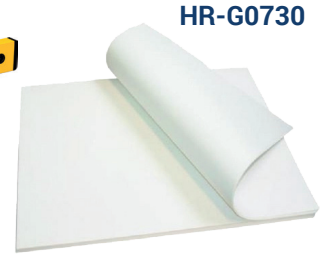
HR-G0716



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



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

HIRA 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, 4 hp

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-G0830



HR-G0831



HR-G0832



HR-G0833

PH METERS

HIRA 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

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

HR-G0858



HR-G0850



HR-G0852

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.

HIRA 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



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.

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 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

