

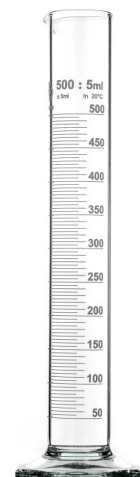
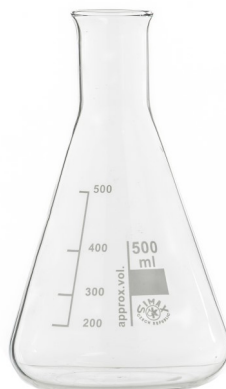
SECTION MG



GENERAL EQUIPMENT

Here you will find all the equipment that is necessary to carry out quality tests on construction materials, but that cannot be included in a specific section.

For example: weighing systems, temperature, measurement and all glassware such as test tubes, pipettes, beakers and other items whose applications are necessary in all previous sections.



CONTROL SYSTEMS

MG001

DIGITAL CONTROL UNIT 2 CHANNELS

System designed for the management and control of testing machines. This equipment is a two-channels computerised graphic display system to control and manage all sorts of automatic and semiautomatic compression and flexure testing machines.

The control unit has been designed for acquisition, display, processing, printing and saving test data and certificates. There is a software available for remote control from PC.

This display has 2 analogue-digital channels accepting sensors, transducers or load cells at 2 mV/V.

In conjunction with a pumping unit this unit allows an automatic control of the pace rate, rapid approaching, touching on and breaking of the specimen. Automatic breaking load detection and elaboration of the specific resistance value.

Permanent file up to 1000 tests and file of 100 different types of specimens. Selectable measuring force: kN, lb
Different Languages: English, French, German, Spanish...
RS232 interface: it allows the data transfer during the test or the test results directly to PC.

Operator interface composed by 5 multi-functions pushbuttons and a graphic screen where function icons are shown.

Different programmable safety devices for the machine or the specimen as the possibility to introduce a percentage of the maximum value reached during the text execution, thermal protection of the motor and different other settable alarms.

The firmware contains a memory of the most used specimens: area, weight, specific weight. Also the possibility of personalization for special sized samples.



MG001

MG005

DIGITAL CONTROL UNIT 8 CHANNELS

System designed for the management and control of testing machines. This unit is designed with the latest technology, an innovative PC-like Touch Screen system, employed to control and manage all sorts of automatic and semiautomatic compression and flexure testing machines.

This system with 8 analog inputs is a PC-based and touch screen system which is modular, flexible and multifunctions. The touch-screen graphical user-friendly interface allows an easy set up of the parameters and an immediate execution of the test. Large directional arrow-keys for gloved use.

Greater calculation ability and data display (on board charts and graphic print-outs). Due to its multilingual framework and international settings the display has a high management capacity of parameters as date and time, decimal units, unit of measure,...

The equipment includes licenses for the execution of compression, flexural and splitting test on concrete and compression and flexural on mortar in accordance to the following standards: EN, ASTM, BS, NF, DIN, etc... Also it has functions for the software updates and licenses.



The device has unlimited memory storage with 2 USB ports and 1 SD card slot. Different Languages: English, French, German, Spanish... RS232 interface: it allows the data transfer during the test or the test results directly to PC.



MG005

POWER SYSTEMS

MG011 MOTORIZED PUMPING UNIT

The power system consists of a dual-stage pump: low pressure/high delivery for fast piston approach and high pressure/low volume for loading.

The pump is fitted with a special manually-controlled proportional valve to maintain the preset load rate during the test, requiring only occasional adjustments by the operator.

The power pump with proportional valve can be used to fit existing frames, including other brands.

Includes tank, speed selector, hydraulic cock, accessories and connectors.

Hydraulic pressure:
0...700 bar
Oil supply:
from 0,05 to 0,7 litres/min



MG011

MG013 SERVO-CONTROLLED PUMPING UNIT

Same technical features in common with MG011 pump except for the enhanced hydraulic control and precise oil flow control automatically operated.

Dual stage pump: centrifugal low pressure for fast approach and automatic switching to radial multi-piston high pressure for loading.

Hydraulic pressure:
0...700 bar
Oil supply:
0,05 to 0,7 liters/min



MG013

MG010-01
Console Housing pump unit
Lined with sound-proofing material for noise reduction.

MG010-02
Two way hydraulic valve
Installed on the pumping unit to activate a second testing frame.



MG010-02



MG010-01

MG010-03
Stop switch on safety guard

PRESSURE TRANSDUCERS

These transducers provide a very accurate electrical signal that is strictly proportional to the pressure of the hydraulic circuit of the testing machine or apparatus. Supplied with cable and calibration certificate.

Input voltage: 10 V DC
Sensitivity range: 2 - 4 mV/V
Accuracy: 0.15 fs
Pressure connection: 0,25 BSP



MG010-23

CODE	PRESSURE
MG010-11	0 - 10 bar
MG010-12	0 - 20 bar
MG010-13	0 - 35 bar
MG010-14	0 - 50 bar
MG010-15	0 - 60 bar
MG010-16	0 - 100 bar
MG010-17	0 - 160 bar
MG010-18	0 - 200 bar
MG010-19	0 - 350 bar
MG010-20	0 - 400 bar
MG010-21	0 - 500 bar
MG010-22	0 - 600 bar
MG010-23	0 - 700 bar

DISPLACEMENT TRANSDUCERS

These provide an electrical signal that is proportional to the displacement of the linear shaft. The extremely low spring force on the shaft and the excellent linearity make these transducers ideal for laboratory use.

STANDARD DISPLACEMENT TRANSDUCERS

Independent Linearity: <0,3% (0,3 x10 mm)

Max. travel speed: up to 10 m/s

MG010-30

Displacement transducer 10 mm travel

MG010-31

Displacement transducer 25 mm travel

MG010-32

Displacement transducer 50 mm travel

MG010-33

Displacement transducer 100 mm travel



MG010-32

DISPLACEMENT TRANSDUCERS "TYPE TR"

Independent Linearity: 0,05%

Standard sensitivity: 0,002 mm

MG010-34

Displacement transducer "TR type" 25 mm travel

MG010-35

Displacement transducer "TR type" 50 mm travel

MG010-36

Displacement transducer "TR type" 100 mm travel



MG010-35

DISPLACEMENT TRANSDUCERS "TYPE LVDT"

These high-precision displacement transducers are controlled by the position of a magnetic core which provides an output of voltage that is proportional to the position of the transducer stem.

Independent Linearity: 0,30 %

Resolution: infinite



MG010-39

MG010-38

MG010-37

Displacement transducer "LVDT type" 2 mm travel

MG010-38

Displacement transducer "LVDT type" 10 mm travel

MG010-39

Displacement transducer "LVDT type" 20 mm travel

DIAL GAUGES

Foreseen on different machines and equipments.

CODE	SYSTEM	TRAVEL	ACCURACY
MG010-51	ANALOGIC	5 mm	0,001 mm
MG010-52	ANALOGIC	10 mm	0,01 mm
MG010-53	ANALOGIC	25 mm	0,01 mm
MG010-54	ANALOGIC	30 mm	0,01 mm
MG010-55	ANALOGIC	50 mm	0,01 mm
MG010-56	ANALOGIC	100 mm	0,01 mm
MG010-61	DIGITAL	12,7 mm	0,001 mm
MG010-62	DIGITAL	25,4 mm	0,001 mm



MG010-56

MG010-54

MG010-52

MG010-62

MG010-41

Extension cable 2 metres long

MG010-42

Extension cable 5 metres long

MG010-43

Extension cable 10 metres long



MG010-43

MOUNTING BRACKETS

Designed for coupling and fixing the displacement transducers and dial gauges to testing machines.

MG010-81

Magnetic holder for dial gauges/indicators

MG010-82

Device to fix the displacement transducer/dial

MG010-83

Spacer for MG010-82 to be fixed to frame columns

MG010-84

Small horizontal coupling device for TR transducers

MG010-85

Large horizontal coupling device for LVDT transducers

MG010-86

Vertical coupling device for LVDT transducers



MG010-84

MG010-85



MG010-82

STRAIN GAUGE LOAD CELLS

These load cells provide a very accurate electrical signal that is strictly proportional to the applied load. They can be used for various test applications with low capacity universal testers.

CODE	CAPACITY kN
MG020-01	2,5
MG020-02	5
MG020-03	10
MG020-04	20
MG020-05	25
MG020-06	50
MG020-07	100
MG020-08	200



MG020-01



MG020-04

HIGH PERFORMANCE LOAD CELLS

These high performance cells have been specially designed to meet the stringent requirements of EN, ISO and ASTM standards for calibration of compression testing machines.

Accuracy: Class 1 EN ISO 376

Linearity: $\leq \pm 0,05\%$

Hysteresis: $\leq \pm 0,05\%$

Repeatability: $0^\circ, 120^\circ, 240^\circ: \leq \pm 0,145\%$

CODE	CAPACITY kN
MG021-01	5
MG021-02	25
MG021-03	30
MG021-04	50
MG021-05	100
MG021-06	300
MG021-07	500
MG021-08	1000
MG021-09	2000
MG021-10	3000
MG021-11	5000



MG021-09



MG021-11



MG021-04

MG021 FORCE VERIFICATION AND CALIBRATION APPARATUS

EN 12390-4 | EN ISO 376 | ASTM C39 | ASTM E4

This user friendly digital display, connected to any load cells allows to perform an accurate verification of the loads measured from machines under control and it allows to produce the corresponding certificate. The instrument foresees three memorized cycle verification program composed of ten measurements each. At the end of the test the unit automatically elaborates the stored value and displays:

- Effective applied load
- Measured load (over three verification cycles)
- Average measured load
- Accuracy in %
- Repeatability
- Relative readability
- Max error

The tester's accuracy is $\pm 0,5\%$ of the indicated load.

Power supply: 230 V | 50-60 Hz

Dimensions: 360x300x200 mm

Weight: 5 Kg

ACCESSORIES

MG030-02

Software to download the results to PC



MG021

SOFTWARE

Software developed for allowing operators the management and an user friendly control of digital testing machines.

The ideal Software for the management of an extensive production. The optimal solution of laboratories for its characteristics of versatility with a wide range of customizations, for testing and research.

Flexibility, operating speed, precision and automatic storage are the fundamental characteristics of the Software conceived to facilitate the operator with few computer skills, for the management of the tests and the testing machines too.

The software is developed on Windows platform and can be installed on old operative systems. Software available in different languages: Spanish, English, French, Italian, German, Polish, Turkish,...

It facilitates the printing of certificates suggesting a preset layout but changeable and customizable by the user with its own logo or others.



MG030-01

Software for remote control through PC

MG030-02

Software to download to PC the results with possibility of certificate printout

MG030-03

Software for test data processing

CONCRETE TESTS

MG030-11

Software for compression test on concrete
EN 12390-3 | ASTM C39 | UNE 83304 |
NF P18-411 | BS 1881 | DIN 51220

MG030-12

Software for flexural test on concrete
EN 12390-5 | ASTM C78, C293
NF P18-407 | BS 1881:118

MG030-13

Software for splitting tensile test on cylinders, cubes and concrete blocks.
EN 12390-6 | ASTM C496



MG030-14

Software for
-Measurement of deflection on fibre reinforced concrete
-Determination of toughness and first crack strength
-Energy absorption test on sprayed concrete specimens

MG030-15

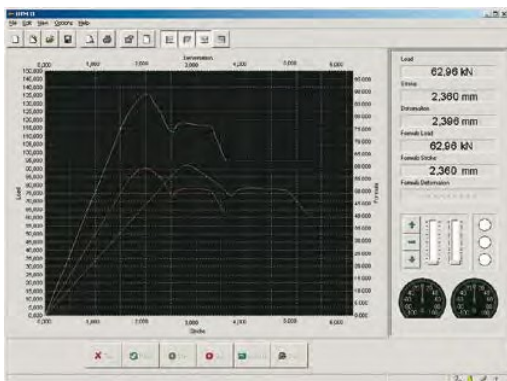
Software for secant compression elastic modulus tests on concrete
ASTM C469 | ISO 6784 | DIN 1048

MG030-16

Software for punching test on clay blocks
EN 15037-2 | EN 15037-3

MG030-17

Software for flexural strengths
First cracking, ultimate and residual
EN 14488-3



MG030-14

CEMENT AND MORTAR TESTS

MG030-21

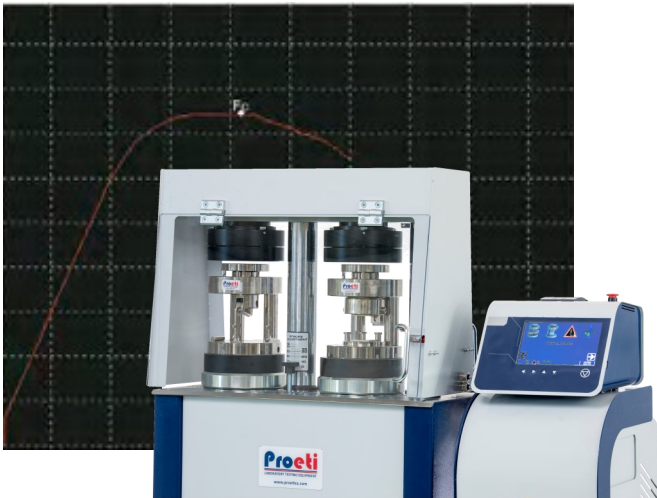
Software for compression test on mortars
EN 196-1 | ASTM C109

MG030-22

Software for flexural test on mortars
EN 196-1 | ASTM C348

MG030-24

Tensile test on mortar briquettes
ASTM C190, C307 | AASHTO T132



BITUMEN AND ASPHALT TESTS

MG030-31

Software for Marshall compression test
EN 12697-34 | ASTM D1559 | CNR N. 30
NF P98-251-2 | BS 598 :107

MG030-33

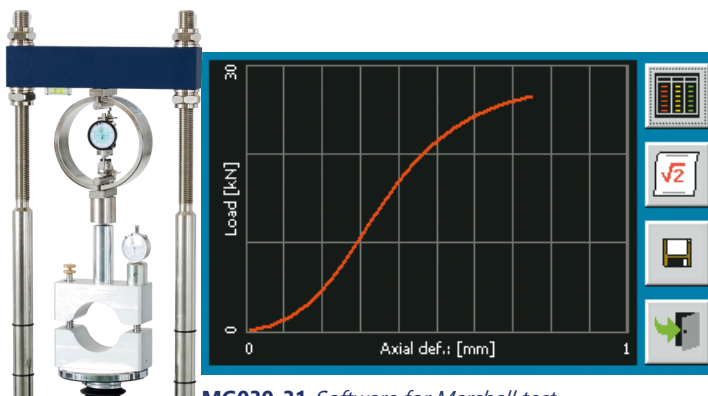
Software for Splitting Tensile test
EN 12697-23 | ASTM D4123 | CNR N. 134

MG030-36

Software for Leutner and Marshall tests
EN 12697-34 | ASTM D1559 | CNR N. 30
NF P98-251-2 | BS 598 :107 | ALP A StB T.4

MG030-37

Software for Duriez test
NF P98-251/1 | NF P98-251/4

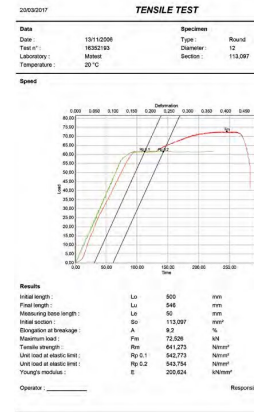


MG030-31 Software for Marshall test

STEEL TESTS

MG030-54

Software for tensile tests on steel
EN 10002 | ASTM A370
ISO 527, 178, 604,
10113, 12275
Allows to see graphs created in real time during the test, and to elaborate a test report.



SOIL TESTS

MG030-41

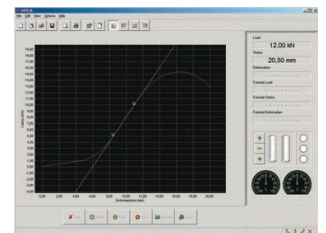
Software for CBR test
EN 13286-47 | ASTM D1883
NF P94-078 | BS 1377:4

MG030-42

Software for unconfined compression test
ASTM D2166

MG030-47

Software for quick triaxial test
ASTM D2850 | BS 1377



MG030-41 CBR Software

ROCKS TEST

MG030-65

Software for elastic modulus tests on rocks
EN 9724-8 | ASTM D3148, D2938, D5407, D2664 | ISRM



MG030-65 Software for Elastic Modulus

COMBINED SOFTWARES

MG030-74

Software for tensile test on steel and compression tests on concrete

MG030-75

Software for Elastic Modulus test on Concrete, Mortar and Rock specimens

MG031 CUSTOM COMPUTER

It is applicable with all the testing machines equipped with digital display measuring system.

Supplied with LCD monitor, keyboard, mouse and connection cables.



MG031

MG035 ON-BOARD GRAPHIC PRINTER

On board graphic printer on thermo-paper for digital control units to print certificates and graphics.

MG035-01
Thermo-paper roll for printer (10 pieces)



MG035

MG037 USB LASER PRINTER

For the graphic and test certificate printing, applicable on all testing machines with digital display measuring system. The connection is direct by parallel interface also without PC.



MG037

MG041 SEPARATE CONTROL PANEL

Supplied with on/off switch and electric protections, to get the equipments to CE Safety Directive.



MG041



MG043

MG043 SEPARATE CONTROL PANEL WITH TIMER

Supplied with timer, on/off switch and electric protections, to get the equipments to CE Safety Directive.

ACQUISITION DATA DEVICES

These devices are multipurpose data loggers which work directly connected to a PC. Data are automatically transferred to PC in real time for live monitoring of the tests. Supplied with software for acquisition and processing data.

Compatible gauge load cells, pressure transducers, linear LDT transducers, LVDT conditioned transducers, with strain, potentiometric displacement transducers.

Available models:

MG051
4 Channels acquisition and processing data system

MG053
8 Channels acquisition and processing data system

MG055
12 Channels acquisition and processing data system

MG057
16 Channels acquisition and processing data system



MG051



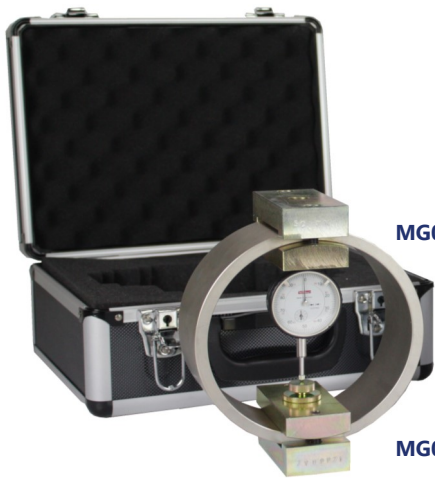
MG057

LOAD MEASURING RINGS

Load rings can be used for load measurement and for calibration of testing machines. All models are made from special alloy steel and are supplied with a dial gauge.

Repeatability is within 0.2% and accuracy is held within $\pm 1\%$. Load rings are supplied with a calibration chart.

The load rings can be supplied in different versions depending upon the application and the machine to be used, as shown in the table below.



MG061-11

MG060-03



MG061-14 + MG060-03

CAPACITY kN	DIAL GAUGE 0,01	DIAL GAUGE 0,001	DIGITAL GAUGE 0,001
0,5	MG061-01	MG063-01	MG065-01
1	MG061-02	MG063-02	MG065-02
2	MG061-03	MG063-03	MG065-03
3	MG061-04	MG063-04	MG065-04
4	MG061-05	MG063-05	MG065-05
5	MG061-06	MG063-06	MG065-06
10	MG061-07	MG063-07	MG065-07
15	MG061-08	MG063-08	MG065-08
20	MG061-09	MG063-09	MG065-09
30	MG061-10	MG063-10	MG065-10
40	MG061-11	MG063-11	MG065-11
50	MG061-12	MG063-12	MG065-12
60	MG061-13	MG063-13	MG065-13
100	MG061-14	MG063-14	MG065-14

BALANCES AND WEIGHING SYSTEMS

WEIGHT SETS CLASS M1

Weights are used almost exclusively for adjusting and testing = calibration of electronic balances.
Made of finely turned stainless steel and supplied in a wooden case.

SET OF WEIGHTS	STAINLESS STEEL
1 mg - 500 mg	MG151-01
1 mg - 50 g	MG151-02
1 mg - 100 g	MG151-03
1 mg - 200 g	MG151-04
1 mg - 500 g	MG151-05
1 mg - 1 Kg	MG151-06
1 mg - 2 Kg	MG151-07
1 mg - 5 Kg	MG151-08
1 mg - 10 Kg	MG151-09
1 g - 50 g	MG151-10
1 g - 100 g	MG151-11
1 g - 200 g	MG151-12
1 g - 500 g	MG151-13
1 g - 1 Kg	MG151-14
1 g - 2 Kg	MG151-15
1 g - 5 Kg	MG151-16
1 g - 10 Kg	MG151-17

STACKABLE TEST WEIGHTS CLASS M1

Made of stainless steel.
Wooden case as optional accessory.

WEIGHT	CODE	CASE
10 Kg	MG171	MG171-01
20 Kg	MG172	MG172-01
50 Kg	MG173	MG173-01



MG153



MG171

BLOCK WEIGHTS CLASS M1

Made of lacquered cast iron or stainless steel.
Carrying case as optional accessory.

WEIGHT	IRON	STAINLESS STEEL	CASE
5 Kg	MG181-01	MG181-02	MG181-03
10 Kg	MG182-01	MG182-02	MG182-03
20 Kg	MG183-01	MG183-02	MG183-03
50 Kg	MG184-01	MG184-02	MG184-03



MG151-08



MG181-03



MG181-01



MG182-02

BALANCES AND WEIGHING SYSTEMS

ANALYTICAL BALANCES

These balances are used in laboratory applications mostly as single-user balances for sample preparation.

The numerous equipment features of the analytical balances are complemented by high-quality materials with robust, sturdy construction, high-quality and high-performance weighing systems.

For different models please get in touch with our commercial/ technical department.

CODE	CAPACITY	RESOLUTION
MG200-12	120 g	0,1 mg
MG200-24	210 g	0,1 mg
MG200-26	220 g	0,1 mg
MG200-37	320 g	0,1 mg
MG200-42	510 g	0,1 mg



MG200-12

MG200-42

PRECISION BALANCES

Precision balances offer you all the tools you would need for effective and accurate work in your laboratory environment.

All important laboratory functions such as a recipe weighing function or data interfaces are on board at all times.

For different models please get in touch with our commercial/ technical department.

CODE	CAPACITY	RESOLUTION
MG210-01	60 g	0,001 g
MG210-02	100 g	0,001 g
MG210-05	200 g	0,001 g
MG210-13	300 g	0,001 g
MG210-19	420 g	0,001 g
MG210-42	720 g	0,001 g
MG210-46	1200 g	0,001 g
MG210-47	2100 g	0,001 g
MG211-01	200 g	0,01 g
MG211-03	400 g	0,01 g
MG211-05	600 g	0,01 g
MG211-12	1200 g	0,01 g
MG211-28	3200 g	0,01 g
MG211-32	3600 g	0,01 g
MG211-38	4200 g	0,01 g
MG211-45	6200 g	0,01 g
MG211-49	8200 g	0,01 g
MG213-01	400 g	0,1 g
MG213-02	1000 g	0,1 g
MG213-04	2000 g	0,1 g
MG213-06	4000 g	0,1 g
MG213-08	6000 g	0,1 g
MG213-17	10000 g	0,1 g
MG213-21	12000 g	0,1 g
MG213-24	16000 g	0,1 g
MG213-25	20000 g	0,1 g
MG213-26	24000 g	0,1 g
MG213-27	31000 g	0,1 g



MG211-38

MG213-27

BALANCES AND WEIGHING SYSTEMS

BENCH SCALES

Thanks to their compact dimensions, low weight, robust internal mechanism and the fact that they can be operated independent of mains power, bench scales can be used not only in a stationary situation, but also as mobile scales.

With weighing ranges between 3 kg and 65 kg, bench scales can cover a wide range of applications.

For different models please get in touch with our commercial/ technical department.



MG220-19

CODE	CAPACITY	RESOLUTION
MG220-05	3 Kg	0,1 g
MG220-06	8 Kg	0,1 g
MG220-08	12 Kg	0,1 g
MG220-09	16 Kg	0,1 g
MG220-10	36 Kg	0,1 g
MG220-16	3 Kg	1 g
MG220-17	12 Kg	1 g
MG220-18	15 Kg	1 g
MG220-19	30 Kg	1 g
MG220-21	65 Kg	1 g

FLOOR BALANCES

In our floor scales product category, we offer our customers a carefully coordinated product range in the weighing range from 300 to 6,000 kg.

Our floor scales are perfectly suited for weighing large containers and heavy goods through generously sized struts and material thicknesses, mobile stored adjustable feet for the protection of the load cells, protection against dust and water splashes or a convenient disconnect device bet ween the display device and platform.

CODE	CAPACITY	RESOLUTION
MG240-01	300 Kg	100 g
MG240-08	600 Kg	200 g
MG240-32	1500 Kg	500 g
MG241-08	3000 Kg	1000 g
MG241-27	6000 Kg	2000 g

PLATFORM SCALES

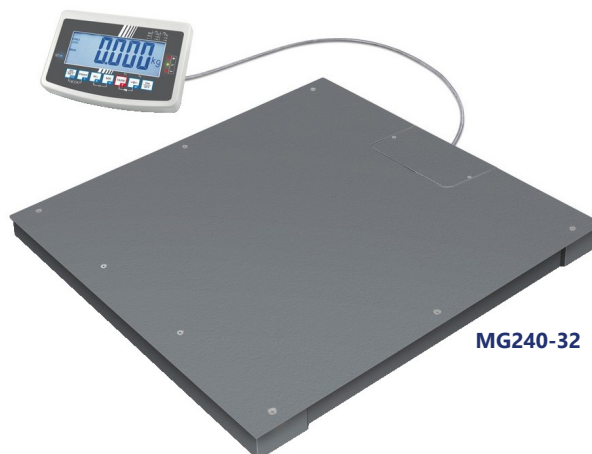
These scales allow to weigh high capacities. Their high quality components provide high stability and precision.

For different models please get in touch with our commercial/ technical department.



MG234-03

CODE	CAPACITY	RESOLUTION
MG231-04	16 Kg	0,1 g
MG231-07	30 Kg	0,1 g
MG232-08	65 Kg	0,5 g
MG232-10	100 Kg	0,5 g
MG232-17	30 Kg	1 g
MG232-20	60 Kg	1 g
MG232-21	150 Kg	1 g
MG233-27	150 Kg	5 g
MG233-41	300 Kg	5 g
MG234-03	35 Kg	10 g
MG234-05	120 Kg	10 g
MG234-07	300 Kg	10 g
MG234-22	60 Kg	20 g
MG234-24	600 Kg	20 g
MG235-02	150 Kg	50 g
MG236-02	300 Kg	100 g



MG240-32

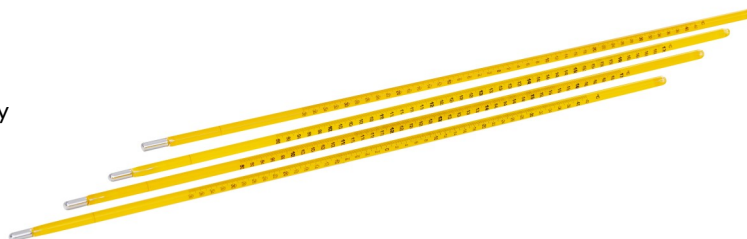
TEMPERATURE MEASUREMENT SYSTEMS

GLASS THERMOMETERS BLUE LIQUID

These thermometers satisfies practically all requirements prescribed by the testing Standards ASTM.

The blue liquid thermometers are an alternative to mercury models due to is not allow to manufacture thermometers with mercury in European Union.

For different models please get in touch with our commercial/ technical department.



CODE	ASTM	RANGE °C	GRADUATION °C	LENGHT mm	APPLICATION
MG260-01	1C	-20 +150°C	1°C	317 mm	
MG260-03	9C	-5 +110°C	0,5°C	285 mm	Pensky Martens
MG260-05	13C	+155 +170°C	0,5°C	150 mm	
MG260-07	15C	-2 +80°C	0,2°C	390 mm	
MG260-08	16C	+30 +200°C	0,5°C	390 mm	
MG260-09	17C	+19 +27°C	0,1°C	270 mm	Saybolt viscosity
MG260-10	18C	+34 +42°C	0,1°C	270 mm	
MG260-11	19C	+49 +57°C	0,1°C	270 mm	Saybolt viscosity
MG260-12	20C	+57 +65°C	0,1°C	270 mm	Saybolt viscosity
MG260-13	21C	+79 +87°C	0,1°C	270 mm	Saybolt viscosity
MG260-14	22C	+95 +103°C	0,1°C	270 mm	
MG260-15	23C	+18 +28°C	0,2°C	207 mm	Engler viscosity
MG260-16	24C	+39 +54°C	0,2°C	232 mm	Engler viscosity
MG260-17	25C	+95 +105°C	0,2°C	207 mm	Engler viscosity
MG260-22	33C	-38 +42°C	0,2°C	415 mm	
MG260-24	35C	+90 +170°C	0,2°C	415 mm	
MG260-32	44C	+18,6 +21,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-33	45C	+23,6 +26,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-34	46C	+48,6 +51,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-35	47C	+58,6 +61,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-36	48C	+80,6 +83,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-39	54C	+20 +100,6°C	0,2°C	305 mm	Freezing point
MG260-46	63C	-8 +32°C	0,1°C	374 mm	
MG260-52	72C	-19,4 -16,6°C	0,05°C	300 mm	Kinematic viscosity
MG260-53	73C	-41,4 -38,6°C	0,05°C	300 mm	Kinematic viscosity
MG260-60	89C	-20 +10°C	0,1°C	365 mm	Solidification point
MG260-61	90C	0 +30°C	0,1°C	365 mm	Solidification point
MG260-62	91C	+20 +50°C	0,1°C	365 mm	Solidification point
MG260-63	92C	+40 +70°C	0,1°C	365 mm	Solidification point
MG260-64	93C	+60 +90°C	0,1°C	365 mm	Solidification point
MG260-65	94C	+80 +110°C	0,1°C	365 mm	Solidification point
MG260-66	95C	+100 +130°C	0,1°C	365 mm	Solidification point
MG260-67	96C	+120 +150°C	0,1°C	365 mm	Solidification point
MG260-73	110C	+133,6 +136,4°C	0,05°C	300 mm	Kinematic viscosity
MG260-82	122C	-45 -35°C	0,1°C	295 mm	Brookfield viscosity
MG260-83	123C	-35 -25°C	0,1°C	295 mm	Brookfield viscosity
MG260-84	124C	-25 -15°C	0,1°C	295 mm	Brookfield viscosity
MG260-85	125C	-15 -5°C	0,1°C	295 mm	Brookfield viscosity

TEMPERATURE MEASUREMENT SYSTEMS

DIGITAL THERMOMETERS

For temperature measurement of freshly mixed concrete, bituminous mixtures and general purpose use.

CODE	RANGE	PROBE
MG271	-50 a +150°C	133 mm
MG273	-50 a +250°C	213 mm



MG275

DIGITAL THERMOMETER

This thermometer is particularly practical because it enables virtually any kind of temperature measurement. Whether for surface, air or immersion/penetration measurement. The thermometer requires to be connected with a probe.

Temperature measuring range: from -50 to +1000°C

Dimensions: 182x65x40 mm

Weight: 171 g

ACCESSORIES

MG275-01

Waterproof immersion/penetration probe -60 a +400°C

MG275-02

Waterproof surface probe -60 a +400°C for flat surfaces

MG275-03

Service case for thermometer and probes

MG275-04

Safe case to protect from impact and dirt

MG291

POCKET INFRARED THERMOMETER

Measures temperature on two channels. On the one hand, being an infrared thermometer it can take non-contact surface temperature measurements of the object being measured, on the other hand, it can measure the air temperature using its additionally integrated NTC sensor.

Supplied with protective cap, belt pouch, and batteries.

Infrared range: -30 to +300°C | Resolution 0,1°C

NTC range: -10 to +50°C | Resolution 0,1°C

Dimensions: 119x46x25 mm

Weight: 90 g



MG291



MG293



MG297

DIAL THERMOMETERS

For temperature measurement of freshly mixed concrete, bituminous mixtures and general purpose use.

Dial: Ø50 mm

Probe: 200 mm



MG286

CODE	RANGE
MG281	0 a +60°C
MG283	0 a +100°C
MG285	0 a +200°C
MG287	0 a +300°C

INFRARED THERMOMETERS

These infrared thermometer allows efficient, non-contact surface temperature measurements to be carried out. Particularly useful for control readings in trade and industry.

Pointer temperature range 1: -30 to +400°C

Pointer temperature range 2: -50 to +500°C

CODE	LASER POINTERS	OPTIC
MG293	1	10:1
MG295	2	12:1
MG297	2	30:1

TEMPERATURE MEASUREMENT SYSTEMS

**MG301
DIGITAL THERMOPAR 2 CHANNELS**

The thermopar microprocessor-controlled model is for professional use and, fitted with the suitable probe (not included), can be used for monitoring the temperature of asphalt, concrete mortar etc. This high resolution model is dual range and is housed in a rugged ABS case.

Temperature range 1: -50 a +200°C resol. 0,1°C
Temperature range 2: +200 a +1350°C resol. 1°C
Dimensions: 150x80x36mm
Weight: 235 g

ACCESSORIES

- MG301-01
Penetration probe Ø3x120 mm up to 900°C
- MG301-02
Surface probe Ø16x260 mm up to 650°C
- MG301-03
Air probe Ø3x245 mm up to 300°C
- MG301-04
Protective cover for thermopar



**MG305
CONDUCTIVITY METER UP TO 400 S**

A rugged, portable meter with the performance and features of a benchtop for measuring:

- Conductivity
- Total Dissolved Solids (TDS)
- Resistivity
- Salinity

Supplied with:
 -Conductivity probe
 -1413 µS/cm calibration solution
 -1118 µS/cm calibration solution
 -Software
 -Micro USB
 -Battery
 -Rugged carrying case

Dimensions: 185x93x35 mm
Weight: 400 g



**MG303
PORTABLE THERMOHYGROMETER**

Designed to provide quick and high accuracy temperature and relative humidity readings.

Supplied with probe, batteries and carrying case.

Dimensions: 154x63x30 mm
Weight: 196 g



**MG307
EC-TDS CONDUCTIVITY METER**

A waterproof meter for measuring Conductivity, Total Dissolved Solids (TDS) and Temperature easy to use with replaceable electrodes.

Supplied with
 -EC/TDS probe
 -Electrode replacement tool
 -Batteries

EC range: 0 - 3999 uS/cm
Resolution: 1 uS/cm

TDS range: 0 a 2000 ppm (mg/L)
Resolution: 1 ppm (mg/L)

Temperature range: 0 - 60°C
Resolution: 0,1°C

Weight: 100 g



MG309 POCKET PH METER 0-14 pH

A simple pH tester for routine measurements.

- Supplied with:
- 2 pH 4,01 calibration solutions
 - 2 pH 7,01 calibration solutions
 - pH electrodes
 - 2 cleaner solutions
 - Batteries



MG309

MG311 DIGITAL PH-TEMPERATURE METER

A pH tester for quick and accuracy pH and temperature measurements with non-replaceable electrode.

- Supplied with:
- pH 4,01 calibration solution
 - pH 7,01 calibration solution
 - Cleaner solution
 - Batteries

Range ph: 0-14 pH
Temperature range: 0,0-50,0°C



MG311

MG313 PORTABLE PH-ORP-TEMPERATURE METER

This professional, waterproof meter accurately measures pH, ORP and temperature. Built-in diagnostic features for the most precise measurements and logging so you never miss a measurement is the perfect tool for environmental and industrial testing.

- Supplied in a rugged carrying case with:
- pH Electrode
 - pH 4,01 calibration solution
 - pH 7,01 calibration solution
 - Cleaner solution
 - Beaker
 - Software
 - Micro USB
 - Battery

Dimensions:
185x93x35 mm
Weight:
400 g



MG313

MG315 MULTIPARAMETRIC METER PH-CE-OD

Advanced pH-meter with high accuracy and versatility which can measure pH, conductivity and dissolved oxygen through its digital electrodes.

- Supplied with:
- Benchtop docking station with electrode holder
 - Wall mount cradle
 - USB cable
 - Adaptador alimentación 5 VDC
 - 2 pH 4,01 calibration solutions
 - 2 pH 7,01 calibration solutions
 - 2 pH 10,01 calibration solutions
 - 2 cleaner solutions
 - pH Electrode

Dimensions:
202x140x13 mm
Weight:
250 g



MG315

WATER STILLS

Used to prepare distilled water for laboratory use. An automatic device keeps the water at a constant level.

If there is a shortage of water an automatic switch cuts off the current and switches it on again when the level returns to normal.

Power supply:
230 V | 50-60 Hz



MG333

CODE	CAPACITY	POWER	DIMENSIONS	WEIGHT
MG331	4 L/h	3000 W	250x220x540 mm	12 Kg
MG333	8 L/h	6000 W	260x260x610 mm	14 Kg

HYDROMETERS

Hydrometers are used for determining the particle size distribution of very fine materials such as silt and clay.

MODELS

MG321

Hydrometer 151 H

Range: 0,995 - 1,038 g/ml, div. 0,001

MG323

Hydrometer 152 H

Range: -5 + 60 g/litre

MG325

Hydrometer BS1377

Range: 0,995 - 1,030 g/ml

MG327

Hydrometer for additives

Range: 1,000 a 1,200 g/ml

MG329

Hydrometer for aggregates EN 1367-2

Range: 1200 a 1300 g/ml



VOLUMETRIC PIPETTES WITH ONE MARK

With coding band and designed according to ISO 648. Class A.

CODE	CAPACITY
MG353-01	1 ml
MG353-02	2 ml
MG353-03	3 ml
MG353-04	5 ml
MG353-05	10 ml
MG353-06	15 ml
MG353-07	20 ml
MG353-08	25 ml
MG353-09	50 ml
MG353-10	100 ml



GLASS MEASURING PIPETTES

With coding band and designed according to ISO 835. Class A.

CODE	CAPACITY	GRADUATION
MG351-01	0,1 ml	0,001
MG351-02	0,2 ml	0,002
MG351-03	0,5 ml	0,005
MG351-04	1 ml	0,01
MG351-05	2 ml	0,02
MG351-06	5 ml	0,05
MG351-07	10 ml	0,1
MG351-08	15 ml	0,1
MG351-09	20 ml	0,1
MG351-10	25 ml	0,1
MG351-11	50 ml	0,2



VOLUMETRIC PIPETTES WITH TWO MARKS

With coding band and designed according to ISO 648. Class A.

CODE	CAPACITY
MG355-01	1 ml
MG355-02	2 ml
MG355-03	5 ml
MG355-04	10 ml
MG355-05	15 ml
MG355-06	20 ml
MG355-07	25 ml
MG355-08	50 ml
MG355-09	100 ml



PIPETTE PUMP FILLER

With wheel and piston, for easy or plastic pipettes.

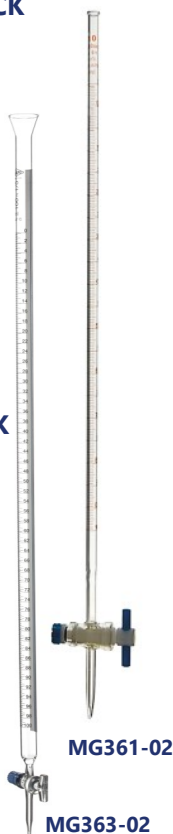
CODE	PIPETTES
MG350-01	up to 2 ml
MG350-02	up to 10 ml
MG350-03	up to 25 ml



BURETTES WITH PTFE STRAIGHT STOPCOCK

Designed according to ISO 385.
Class A.

CODE	CAPACITY	GRADUATION
MG361-01	10 ml	0,05
MG361-02	25 ml	0,1
MG361-03	50 ml	0,1
MG361-04	100 ml	0,2



BURETTE WITH PTFE STRAIGHT STOPCOCK AND FUNNEL TOP

Designed according to ISO 385.
With funnel top to make filling easier and safer.
Schellbach Type.
Class A.

CODE	CAPACITY	GRADUATION
MG363-01	10 ml	0,05
MG363-02	25 ml	0,1
MG363-03	50 ml	0,1

PYCNOMETER FOR SOLIDS

CODE	CAPACITY
MG371-01	25 ml
MG371-02	50 ml
MG371-03	100 ml



MG371-03

GAY-LUSSAC PYCNOMETERS

CODE	CAPACITY
MG375-01	10 ml
MG375-02	25 ml
MG375-03	50 ml
MG375-04	100 ml



MG375-02

MG375-03

MG375-04

DENSITY BASKETS STAINLESS STEEL MADE

CODE	DIMENSIONS
MG381-01	Ø120x120
MG381-02	Ø160x160
MG381-03	Ø180x180
MG381-04	Ø200x200
MG381-05	Ø250x250
MG381-06	Ø300x300



MG380 SPECIFIC GRAVITY FRAME

EN 12390-7 | EN 1097-6 | BS 812 | BS 1881:14

This apparatus is used, together with a suitable electronic balance, for determining the specific gravity of laboratory fresh and hardened concrete and aggregates.

A purpose built robust frame supports the electronic balance, while the lower part of the frame incorporates a moving platform which holds the water container, allowing test specimens to be weighed in both air and water.

The balance is not included and should be selected according to the weighing range required. Any type of electronic balance fitted with an under-bench weighing facility can be used.

Dimensions: 510x510x1150 mm
Weight: 50 Kg



MG380 + MG380-03

MG385 SPECIFIC GRAVITY KIT

This apparatus is used, together with a suitable electronic balance, for determining the specific gravity of laboratory fresh and hardened concrete and aggregates.

The kit is composed of a support bridge frame with hook rod and a plastic tank 370x370x330 mm.



MG385

ACCESORIES FOR SPECIFIC GRAVITY:

- MG380-01 Cradle for holding specimens
- MG381-04 Density basket Ø200x200 mm, mesh 3,35 mm
- MG220-09 Electronic top loading balance 16 Kg x 0,1 g

VOLUMETRIC FLASK WITH PLASTIC STOPPER

Made of borosilicate glass.
Designed according to ISO 1042.
Class A.

CODE	CAPACITY
MG390-01	5 ml
MG390-02	10 ml
MG390-03	20 ml
MG390-04	25 ml
MG390-05	50 ml
MG390-06	100 ml
MG390-07	200 ml
MG390-08	250 ml
MG390-09	500 ml
MG390-10	1000 ml
MG390-11	2000 ml

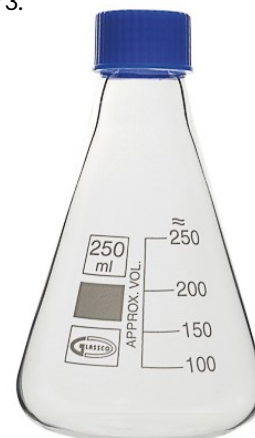


MG390-07

ERLENMEYER FLASKS WITH SCREW CAP

Made of borosilicate glass.
With GL thread and screw cap with a PTFE joint.
According to DIN 12380, ISO 1773.

CODE	CAPACITY
MG395-01	100 ml
MG395-02	250 ml
MG395-03	500 ml
MG395-04	1000 ml



MG395

FILTERING FLASKS (KITASATO)

CODE	CAPACITY
MG397-01	250 ml
MG397-02	500 ml
MG397-03	1000 ml

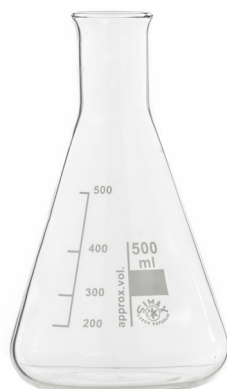


MG397-02

ERLENMEYER FLASK NARROW NECK

Graduated. Made of borosilicate glass.
According to DIN 12380, ISO 1773.

CODE	CAPACITY
MG391-01	25 ml
MG391-02	50 ml
MG391-03	100 ml
MG391-04	250 ml
MG391-05	500 ml
MG391-06	1000 ml
MG391-07	2000 ml
MG391-08	3000 ml
MG391-09	5000 ml



MG391-05

GRADUATED BOTTLES WITH THREAD

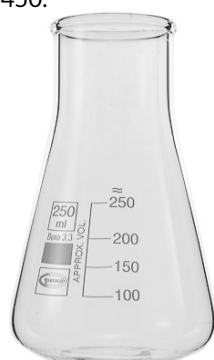
Made of borosilicate glass.
With screw cap and pouring ring in polypropylene.
According to ISO 4796.

CODE	CAPACITY
MG401-01	50 ml
MG401-02	100 ml
MG401-03	250 ml
MG401-04	500 ml
MG401-05	1000 ml
MG401-06	2000 ml

ERLENMEYER FLASK WIDE NECK

Graduated. Made of borosilicate glass.
According to DIN 12385, EN ISO 24450.

CODE	CAPACITY
MG393-01	100 ml
MG393-02	250 ml
MG393-03	500 ml
MG393-04	1000 ml



MG393-02



MG401-04

BEAKERS LOW FORM

Graduated, with spout. According to DIN 12331, ISO 3819. Made of borosilicate glass.

CODE	CAPACITY	DIMENSIONS
MG403-01	25 ml	Ø35x50 mm
MG403-02	50 ml	Ø45x60 mm
MG403-03	100 ml	Ø53x70 mm
MG403-04	150 ml	Ø60x80 mm
MG403-05	250 ml	Ø70x97 mm
MG403-06	400 ml	Ø80x112 mm
MG403-07	500 ml	Ø87x118 mm
MG403-08	600 ml	Ø90x130 mm
MG403-09	800 ml	Ø100x135 mm
MG403-10	1000 ml	Ø105x150 mm
MG403-11	2000 ml	Ø133x185 mm
MG403-12	3000 ml	Ø150x215 mm
MG403-13	5000 ml	Ø170x270 mm

BEAKERS TALL FORM

Graduated, with spout. According to DIN 12331, ISO 3819. Made of borosilicate glass.

CODE	CAPACITY	DIMENSIONS
MG405-01	50 ml	Ø45x60 mm
MG405-02	100 ml	Ø53x70 mm
MG405-03	150 ml	Ø60x80 mm
MG405-04	250 ml	Ø70x97 mm
MG405-05	400 ml	Ø80x112 mm
MG405-06	500 ml	Ø87x118 mm
MG405-07	600 ml	Ø90x130 mm
MG405-08	800 ml	Ø100x135 mm
MG405-09	1000 ml	Ø105x150 mm
MG405-10	2000 ml	Ø133x185 mm



MG403-09

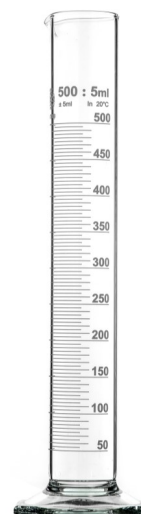


MG405-04

MEASURING CYLINDER HEXAGONAL BASE

Made of borosilicate glass in compliance with ISO 4788. Class A.

CODE	CAPACITY	GRADUATION
MG411-01	10 ml	0,2
MG411-02	25 ml	0,5
MG411-03	50 ml	1
MG411-04	100 ml	1
MG411-05	250 ml	2
MG411-06	500 ml	5
MG411-07	1000 ml	10
MG411-08	2000 ml	20

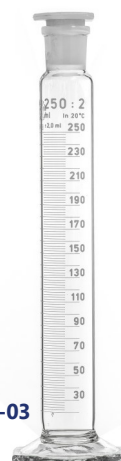


MG411-06

MEASURING CYLINDER HEXAGONAL BASE WITH PLASTIC STOPPER

Made of borosilicate glass in compliance with ISO 4788. Class B.

CODE	CAPACITY	GRADUATION
MG413-01	50 ml	1
MG413-02	100 ml	1
MG413-03	250 ml	2
MG413-04	500 ml	5
MG413-05	1000 ml	10



MG413-03

MEASURING CYLINDER HEXAGONAL BASE

Made of Polymethylpentene (PMP) according to ISO 6706. Class B.

CODE	CAPACITY	GRADUATION
MG415-01	10 ml	0,2
MG415-02	25 ml	0,5
MG415-03	50 ml	1
MG415-04	100 ml	1
MG415-05	250 ml	2
MG415-06	500 ml	5
MG415-07	1000 ml	10
MG415-08	2000 ml	20



MG415-04

DESICCATORS WITH GLASS COVER

CODE	CAPACITY	DIMENSIONS
MG421-01	4 L	Ø210x300 mm
MG421-02	6 L	Ø240x350 mm
MG421-03	10 L	Ø300x400 mm

VACUUM TYPE DESICCATORS GLASS COVER AND LID

CODE	CAPACITY	DIMENSIONS
MG423-01	4 L	Ø210x308 mm
MG423-02	6 L	Ø240x358 mm
MG423-03	10 L	Ø300x408 mm



MG421-02



MG423-02

WEIGHING BOTTLE WITH LID LOW FORM

CODE	DIMENSIONS
MG431-01	Ø30x20 mm
MG431-02	Ø35x25 mm
MG431-03	Ø40x30 mm
MG431-04	Ø50x30 mm
MG431-05	Ø60x30 mm
MG431-06	Ø70x40 mm



MG431-03

WEIGHING BOTTLE WITH LID TALL FORM

CODE	DIMENSIONS
MG433-01	Ø25x25 mm
MG433-02	Ø25x40 mm
MG433-03	Ø30x50 mm
MG433-04	Ø40x50 mm
MG433-05	Ø45x70 mm



MG433-05

BOTTLE AMBER NARROW MOUTH WITH STOPPER

CODE	CAPACITY
MG441-01	50 ml
MG441-02	100 ml
MG441-03	250 ml
MG441-04	500 ml
MG441-05	1000 ml
MG441-06	2000 ml



MG441-05

BOTTLE AMBER WIDE MOUTH WITH STOPPER

CODE	CAPACITY
MG443-01	100 ml
MG443-02	250 ml
MG443-03	500 ml
MG443-04	1000 ml
MG443-05	2000 ml



MG443-04

PORCELAIN MORTAR WITH PESTLE

Made of upper grade porcelain.
Unglazed inside but fine polished.
Includes mortar and pestle.

CODE	CAPACITY
MG451-01	60 ml
MG451-02	100 ml
MG451-03	150 ml
MG451-04	275 ml
MG451-05	550 ml
MG451-06	900 ml
MG451-07	1500 ml
MG451-08	2000 ml
MG451-09	4200 ml



MG451-05

EVAPORATING DISH PORCELAIN FLAT BOTTOM

Made of top quality porcelain. Withstands temperatures up to 1150°C. Glazed inside.

CODE	CAPACITY
MG453-01	35 ml
MG453-02	50 ml
MG453-03	80 ml
MG453-04	100 ml
MG453-05	200 ml
MG453-06	300 ml
MG453-07	500 ml
MG453-08	1000 ml



STAINLESS STEEL BOWLS

CODE	CAPACITY	DIMENSIONS
MG461-01	200 ml	Ø85x45 mm
MG461-02	300 ml	Ø105x45 mm
MG461-03	400 ml	Ø130x50 mm
MG461-04	550 ml	Ø155x60 mm



EVAPORATING DISH PORCELAIN ROUND BOTTOM

Made of top quality porcelain. Withstands temperatures up to 1150°C. Glazed inside.

CODE	CAPACITY
MG455-01	35 ml
MG455-02	70 ml
MG455-03	120 ml
MG455-04	250 ml
MG455-05	385 ml
MG455-06	525 ml
MG455-07	765 ml
MG455-08	1285 ml



STAINLESS STEEL BOWLS COVER

CODE	CAPACITY	DIMENSIONS
MG463-01	200 ml	Ø85x45 mm
MG463-02	300 ml	Ø105x45 mm
MG463-03	400 ml	Ø130x50 mm
MG463-04	550 ml	Ø155x60 mm



CASSEROLE PORCELAIN WITH HANDLE

Made of top quality porcelain. Withstands temperatures up to 1150°C. Glazed inside.

CODE	CAPACITY
MG457-01	65 ml
MG457-02	200 ml
MG457-03	500 ml
MG457-04	1250 ml



STAINLESS STEEL BOWLS WITH SPOUT

CODE	CAPACITY	DIMENSIONS
MG465-01	100 ml	Ø80x40 mm
MG465-02	200 ml	Ø100x50 mm
MG465-03	300 ml	Ø120x50 mm
MG465-04	425 ml	Ø140x50 mm
MG465-05	550 ml	Ø160x50 mm
MG465-06	700 ml	Ø180x50 mm



GLASS PETRI DISHES

CODE	DIMENSIONS
MG481-01	Ø60x15 mm
MG481-02	Ø80x15 mm
MG481-03	Ø100x20 mm
MG481-04	Ø150x25 mm



MG481-04

MG481-01

POLYSTYRENE PETRI DISHES Ø90X14 MM

CODE	TYPE	COMPARTMENTS
MG483-01	Aseptic	1
MG483-02	Aseptic	2
MG483-03	Aseptic	3
MG483-04	Aseptic	4



MG483-01



MG483-04



MG483-05

MG480 PETRI DISH CARRIER RACK

Stainless steel rack for Petri dishes of ≤ 100 mm diameter. The handle facilitates the transport of up to three parallel columns of stacked plates.



MG480

FUNNEL WITH SINTERED DISC

CODE	PLATE	CAPACITY
MG501-01	Ø30 mm	30 ml
MG501-02	Ø40 mm	60 ml
MG501-03	Ø65 mm	140 ml
MG501-04	Ø90 mm	450 ml



MG501-03

POLYPROPYLEN FUNNEL NARROW MOUTH

CODE	DIAMETER
MG503-01	Ø80 mm
MG503-02	Ø100 mm
MG503-03	Ø120 mm
MG503-04	Ø180 mm
MG503-05	Ø220 mm
MG503-06	Ø260 mm
MG503-07	Ø310 mm



POLYPROPYLEN FUNNEL WIDE MOUTH

CODE	DIAMETERS	
MG505-01	max. Ø65	min. Ø12 mm
MG505-02	max. Ø80	min. Ø12 mm
MG505-03	max. Ø100	min. Ø18 mm
MG505-04	max. Ø150	min. Ø24mm



MG505-02



MG505-01

WIDE MOUTH BOTTLE

With black lid and insert plug.

CODE	CAPACITY	DIMENSIONS
MG511-01	60 ml	Ø57x45 mm
MG511-02	125 ml	Ø59x70 mm
MG511-03	250 ml	Ø67x98 mm
MG511-04	500 ml	Ø80x132 mm
MG511-05	750 ml	Ø99x127 mm
MG511-06	1000 ml	Ø102x151 mm
MG511-07	2000 ml	Ø118x227 mm



WASH BOTTLES

Made of polyethylene with screw cap with outlet tube. Very resistant to any liquid, acid and base. 30mm wide neck for easy and safe filling.

CODE	CAPACITY
MG513-01	250 ml
MG513-02	500 ml
MG513-03	1000 ml



MG513-03 MG513-02

PLASTIC BOTTLES

Made of polyethylene for the storage of acids and bases with screw cap.

CODE	CAPACITY
MG515-01	125 ml
MG515-02	250 ml
MG515-03	500 ml
MG515-04	1000 ml



MG515-03 MG515-04

PLASTIC MEASURING CUPS

CODE	CAPACITY	GRADUATION
MG521-01	250 ml	10
MG521-02	500 ml	25
MG521-03	1000 ml	50
MG521-04	2000 ml	50
MG521-05	3000 ml	100
MG521-06	5000 ml	250



MG521-03

PLASTIC DRUMS

CODE	CAPACITY
MG523-01	1 L
MG523-02	2 L
MG523-03	5 L
MG523-04	10 L



MG523-03

PLASTIC CANS

CODE	CAPACITY
MG525-01	5 L
MG525-02	10 L
MG525-03	20 L
MG525-04	30 L



MG525-02

PLASTIC CONTAINERS WITH HERMETIC LID

Made of polypropylene with lid and handle.



MG527-04

CODE	CAPACITY
MG527-01	1 L
MG527-02	1,5 L
MG527-03	4,4 L
MG527-04	5,6 L
MG527-05	10,7 L

PLASTIC BOXES

Rectangular stackable polyethylene trays.

CODE	CAPACITY	DIMENSIONS
MG531-01	15 L	395x295x215 mm
MG531-02	20 L	440x314x200 mm
MG531-03	35 L	595x395x215 mm
MG531-04	55 L	595x395x320 mm
MG531-05	80 L	800x600x230 mm
MG531-06	120 L	800x600x330 mm

ISOTHERMAL BOXES

Made of 100% recyclable polystyrene, they allow products to be optimally isolated.

CODE	CAPACITY	DIMENSIONS
MG533-01	3,5 L	225x225x195 mm
MG533-02	4,7 L	330x200x185 mm
MG533-03	7,3 L	330x225x225 mm



MG531-02



MG533-03

STAINLESS STEEL TRAY

CODE	DIMENSIONS
MG551-01	200x200x45 mm
MG551-02	200x400x45 mm
MG551-03	300x300x45 mm
MG551-04	400x400x45 mm
MG551-05	400x600x45 mm
MG551-06	600x600x45 mm
MG551-07	1000x1000x45 mm



MG551-02

MG551-01

STAINLESS STEEL TRAY WITH RIM

CODE	DIMENSIONS
MG553-01	140x160x45 mm
MG553-02	140x200x45 mm
MG553-03	180x240x45 mm
MG553-04	200x300x45 mm
MG553-05	240x300x45 mm
MG553-06	290x390x45 mm



MG553-01

MG553-04

STAINLESS STEEL TRAY WITH HANDLES

CODE	DIMENSIONS
MG555-01	220x300x75 mm
MG555-02	260x350x78 mm
MG555-03	280x400x85 mm
MG555-04	320x450x90 mm



MG555-02

LABORATORY SPATULAS DOUBLED CURVED-END

Made of stainless steel.

CODE	LENGTH
MG571-01	130 mm
MG571-02	150 mm
MG571-03	180 mm
MG571-04	210 mm



MG571-02

CHATTAWAY SPATULAS

Made of stainless steel.

CODE	LENGTH	TIPS WIDTH
MG573-01	100 mm	3,5 mm
MG573-02	150 mm	4 mm
MG573-03	150 mm	6 mm
MG573-04	200 mm	7 mm



MG573-02

SPATULAS WITH WOODEN HANDLE

With blade made of stainless steel and 100 mm handle.

CODE	LENGTH
MG575-01	100 mm
MG575-02	150 mm
MG575-03	200 mm
MG575-04	250 mm
MG575-05	300 mm



MG575-05

MG575-01

SPATULAS WITH PLASTIC HANDLE

CODE	LENGTH
MG577-01	150 mm
MG577-02	200 mm
MG577-03	250 mm
MG577-04	300 mm
MG577-05	350 mm



MG577-02

STAINLESS STEEL SCOOPS

CODE	CAPACITY
MG581-01	60 ml
MG581-02	110 ml
MG581-03	200 ml
MG581-04	250 ml
MG581-05	360 ml
MG581-06	470 ml
MG581-07	640 ml
MG581-08	860 ml
MG581-09	1000 ml
MG581-10	2000 ml



MG581-09



MG581-06

PLASTIC SCOOPS

CODE	CAPACITY
MG583-01	120 ml
MG583-02	300 ml
MG583-03	550 ml
MG583-04	950 ml
MG583-05	1600 ml



MG583-02

MG583-04

MG583-01

MASONRY TOOLS

- MG600 Steel Hammer
- MG601 Pick mattock
- MG602 Steel Mallet
- MG603 Rubber Mallet
- MG604 Rigid Spatula
- MG605 Trowel
- MG606 Rectangular Trowel
- MG607 Shovel
- MG608 Tyre rubber basket
- MG609 Gloves



MG609

MG607



MG601

MG603

MG606

MG602

MG600

MG604

MG605

MG608

HOT PLATES

Designed to meet routine heating requirements of laboratories, for a wide variety of applications.

CODE	Ø PLATE
MG681-01	Ø 150 mm
MG681-02	Ø 180 mm
MG681-03	Ø200 mm
MG681-04	Ø 220 mm

CODE	PLATE	THERMOSTAT	MAX TEMP
MG683-01	220x400 mm	Digital	200°C
MG683-02	250x500 mm	Digital	200°C
MG683-03	220x400 mm	Analogic	400°C
MG683-04	250x500 mm	Analogic	400°C
MG683-05	220x400 mm	Digital	400°C
MG683-06	250x500 mm	Digital	400°C



MUFFLE FURNACES 1200°C

This range of muffle furnaces covers practically all requirements of the construction material laboratory, from aggregates to concrete, cement and asphalt testing.

Power supply: 220 V

CODE	CAPACITY	DIMENSIONS	CONSUMPTION
MG701	1,6 L	300x330x430 mm	1,7 kW
MG702	7,6 L	540x510x490 mm	3,8 kW
MG703	12 L	540x510x490 mm	3,8 kW
MG704	18 L	600x600x600 mm	4,5 kW
MG705	24 L	650x600x650 mm	4,5 kW
MG706	30 L	750x600x700 mm	4,5 kW
MG707	32 L	650x780x650 mm	4,5 kW
MG708	42 L	750x800x700 mm	4,5 kW



VACUUM PUMP

For filter units, filtering flasks, desiccators and other laboratory applications. Compact and light weight. Piston powered vacuum pump, 100% oil-free transfer, clean and maintenance free. Adjustable vacuum. Vacuum gauge included. Silent running (50 dB). It is recommended to combine vacuum pumps with a vacuum trap.



Power supply: 220V - 50Hz

CODE	FLOW RATE	MAX VACUUM	CONSUMPTION	VACUUM TRAP
MG731	20 L/min	105 mbar	60 W	MG731-01
MG733	20 L/min	30 mbar	80 W	MG733-01
MG735	68 L/min	120 mbar	200 W	MG735-02

ROTARY VANE VACUUM PUMPS

Rotary vane mechanism that allows to generate a higher vacuum. Requires lubrication by recirculating oil. Recommended for vacuum drying ovens of up to 60 L and other high vacuum needs. Silent running (52 dB).



CODE	FLOW RATE	MAX VACUUM	CONSUMPTION
MG741	75 L/min	0,1 mbar	180 W
MG743	75 L/min	0,01 mbar	240 W
MG745	150 L/min	0,01 mbar	370 W

ACCESORIES

MG740-01

Vacuum regulator with vacuum gauge, control valve, suction filter and moisture trap

MG740-02

Rubber tube 3 m long

MG740-03

Condensed water trap

MG780

PORTABLE GENERATOR FOR LABORATORY

Portable petrol engine driven single-phase generator. Ideal for site use with electrically operated machines and other apparatus when mains current is not available.

Power supply:

3000 W

Dimensions:

670x550x490 mm



AIR COMPRESSORS

We offer several different models which should satisfy all requirements relating to the different applications in soil, concrete and asphalt fields.

CODE	CAPACITY	AIR DELIVERY	CONSUMPTION
MG751	27 L	255 L/min	1,5 kW
MG753	50 L	255 L/min	1,5 kW
MG755	90 L	255 L/min	1,5 kW
MG757	200 L	320 L/min	2,2 kW
MG759	270 L	486 L/min	3 kW



MG810

HIGH PERFORMANCE MIXER 50 L

Planetary gearing converts power into high torque and high speed, ensuring optimum mixing in the shortest time possible. Built-in timer lets you control mixing cycles. The rim scraper and height adjustable mixing tools remove all material deposits on the bottom and sides of bucket, enabling less clean-up which means more productivity. Bucket dolly allows for quick transport and easy pouring.

Forced-action mixing tackles the most challenging materials. Interchangeable tools and speeds enable you to mix a variety of material from liquid to plastic media and multi-component systems like quartz sand mortar all in one machine.

Power supply:

230 V | 1100 W

Dimensions:

1075x758x845 mm

Weight:

112 Kg



LABORATORY MIXERS

These mixers have been designed and built for specific use in official laboratories, institutions and universities. They are indispensable for obtaining a perfect mix of concrete and guaranteeing a high degree of homogeneity. Due to the considerable size of the vessel, models with capacity over 50 L are supplied with a cart for transportation and safety protection.

Power supply: 220-380 V | 50-60 Hz

CODE	CAPACITY	DIMENSIONS	WEIGHT
MG801	14 L	700x600x650 mm	80 Kg
MG803	50 L	780x700x800 mm	160 Kg
MG805	100 L	830x800x900 mm	200 Kg
MG807	150 L	1700x950x1180 mm	290 Kg



MG801



MG823

PAN TYPE MIXERS

Mixers with solid and robust construction designed for preparing concrete specimens and samples in the laboratory and on site. This high quality mixer guarantees excellent mixing results particularly using the smallest quantities of material.

Discharge is manually controlled for easy unloading of the mixer into a suitable container or wheelbarrow.

Power supply: 230-400 V | 50 Hz

CODE	CAPACITY	POWER	WEIGHT
MG821	60 L	2 kW	170 Kg
MG822	100 L	2 kW	200 Kg
MG823	120 L	4 kW	280 Kg
MG824	180 L	7,5 kW	390 Kg
MG825	300 L	9 kW	580 Kg
MG826	500 L	18,5 kW	1000 Kg
MG827	750 L	30 kW	1200 Kg

DRUM-TYPE MIXER

This model is a light weight but sturdy concrete mixer with different drum capacities. Particularly suitable for field use, to prepare low to medium strength concrete.

- MG831
Drum-type mixer 150 L
- MG833
Drum-type mixer 250 L
- MG835
Drum-type mixer 300 L



MG831

MG850 WHEEL BARROW

Open cart with one wheel and handles that is used for carrying heavy materials.



MG850

MG861 TROLLEY

Useful for handling concrete samples or moulds in the laboratory.

MG863 TROLLEY 2 SHELVES



MG861

MG863