

# LOT 1 - GAS WELDING & MACHINE TOOL LABORATORY

## TIG WELDING MACHINES

MT-19025J

### Specification:

- Rated Input Voltage: 220 V
- Max. Load Power Capacity: 6KVA
- Output Polarity: DC TIG
- Rated Duty Cycle @40°C (TIG): 35%
- Rated Output Current (TIG): 180 A
- Rated Output Voltage (TIG): 17.5 V
- Key Selling Points: Multifunctional



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# MIG /MAG MULTIFUNCTION WELDING MACHINES

MT-19041



## Specification:

- Material / Metal Processed: Carbon Steel/Stainless Steel/Aluminium alloy
- Rated Input Voltage: 220 V
- Wire Melting Type: Short Circuit Transfer
- Max. Load Power Capacity: 7.1KVA
- Rated Output Current (MIG): 200 A
- Rated Output Voltage (MIG): 24 V
- Welding Current/Voltage Range: 200A/220V
- Rated Duty Cycle @40°C (MIG): 60%
- Wire Feeding Speed: 15 m/min

### STANDARD ACCESSORIES

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# MIG/ MAG/TIG WELDING TORCHES

MT-144V

## Specification:

- Type: Welding Torch
- Product name: Welding Gun
- Rating: 500A CO<sub>2</sub>/450A Mixed Gas
- Duty cycle: 100%
- Package: 1pcs/box
- Wire Diameter: 0.8-1.6mm
- Handle: Flame Handle
- Cooling type: Water Cooled MIG Welding Torch



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# TORCH LIGHT/MEDIUM DUTY, TORCH CUTTING AND WELDING PORTABLE KIT

**MT-380P**

## Specification:

- Torch Light/Medium Duty, Torch Cutting and Welding Portable Kit

## Kit is Includes:

- Oxygen Regulator
- Acetylene Regulator
- Torch Handle
- Goggles
- Flint Lighter
- T-Grade Hose
- Cutting Tip
- Welding Tip
- Oxygen Cylinder
- Acetylene Cylinder
- Check Valves
- Plastic Tote
- Cutting Attachment



### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# AUTOMATIC WELDING HELMET

## MT-832K

### Specification:

- Darkening level (Shade) DIN 5-13 (continuously adjustable)
- Light sensitivity (Sensitivity)(infinitely adjustable)
- Response time (light to dark) 1/25000 s
- Response time (dark to light) adjustable: 0.1-1.0 s
- Field of view 103x90 mm
- Filter size 110x145x20 mm
- Outer protective disc 120x138 mm
- Inner protective disc 98x103 mm
- Operating temperature -5 ° C to + 55 ° C
- UV / IR protection DIN 16
- Power supply Solar cells,
- Lithium battery



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# WELDING GLOVES LEATHER

MCSM-69A

## Specification:

- TIG MIG/MAG, MMA welding gloves leather,
- Heat resistant
- Leather,
- Heat resistant



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# NITROGEN CYLINDER PRESSURE REGULATOR WITH HOSE

## MT-196H



### Specification:

- Max Pressure:3000 PSIG
- Delivery Range: 4-80 PSIG
- Inlet Connection CGA-580
- Outlet Connection 1/4"
- Industrial Quick-Disconnect Coupler

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# VERTICAL MACHINE CENTER

## MT-211A

### Specification:

#### Standard Equipment

- Advance control
- 12- station automatic tool changer
- Electronic hand-wheel
- Coolant system
- Operational health status indicator
- Automatic central lubrication
- Enclosure
- Levelling pads and bolts
- Work lamp
- Air gun
- Operating tools
- Operator instructions



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# UNIVERSAL MILLING MACHINE

## MT-3507

### Specification:

#### Standard Equipment

- 3-axis position indicator X.Pos 3.2
- 2 long cutter arbors ( $\varnothing 22, \varnothing 27$  mm)
- Drill chuck 16 mm
- Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2
- Coolant system
- Work lamp
- Operating tools Heat Exchanger for electric control cabinet Fully enclosed work space (without top cover)
- Electronic hand-wheel
- USB port
- Automatic central lubrication
- Work lamp
- 3-color signal lamp
- Operating tools
- Leveling bolts and blocks
- 4th and 5th Axis  $\varnothing 200$  mm Rotary Table



#### STANDARD ACCESSORIES

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Main Unit



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# CNC INCLINED BED LATHE

## MT-4410L

### Specification:

#### Standard Equipment

- D control Hydr.160 mm
- 3-jaw lathe chuck with through-hole
- Automatic central lubrication
- Chain-type chip conveyor
- Heat Exchanger for electric control cabinet
- Closed work space
- LED work lamp
- Coolant system
- Operating tools
- Operator manual
- Driven tool (radial)



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# 3AXIS SURFACE GRINDING MACHINE

## MT-SG2

### Specification:

- Auto Downfeed Increments: 0.0001" (10 Steps)
- Motor : 3 HP, 230/460V, 3 PH
- Saddle Travel : 11.4"
- Spindle Center To Table : 21"
- Spindle Speed: 3,500 RPM
- Table Size: 10" x 20"
- Table Travel: 23.6"
- Vertical Graduation: 0.0005"
- Vertical Revolution: 0.1000"
- Wheel Size: 8" x 1" x 1-1/4"



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# LATHE MACHINE

## MT-4410L

### Specification:

#### Standard Equipment

- 3-axis position indicator, X.pos 3.2 VC
- 4-jaw face plate chuck  $\varnothing$  250 mm
- Face plate  $\varnothing$  350 mm
- Quick change tool holder head WB
- Quick change tool holder
- Coolant system
- Steady rest
- Chip tray
- Fixed splash guard (wall)
- Traveling cover for the toolpost
- Follow rest
- Turret stop
- Micrometer stop
- Foot brake pedal
- Chuck guard
- Work light
- Toolbox with operating tools
- Dead center
- Reducing Sleeve
- Fixed stainless steel safety cover for tension and lead screw
- Operator instructions



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# CNC INCLINED BED LATHE

## MTS-3504

### Specification:

- Hydr.160 mm
- 3-jaw lathe chuck with through- hole;
- Automatic central lubrication
- Chain-type chip conveyor;
- Heat Exchanger for electric control cabinet;
- Closed work space;
- LED work lamp;
- Coolant system;
- Operating tools ;
- Operator manual;
- Driven tool (radial).



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# VERTICAL MACHINE CENTER

## MT-211A

### Specification:

- Advance control system;
- 12-station automatic tool changer;
- Electronic hand-wheel;
- Coolant system;
- Operational health status indicator;
- Automatic central lubrication;
- Enclosure;
- levelling pads and bolts;
- Work lamp;
- Air gun;
- Operating tools;
- Operator instructions.



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# TOOL KIT 150 PIECES SATA ST09510SJ

## MT-9790



### Specification:

- Hex sockets: 4, 5, 6, 7, 8, 9, 10, 11, 12, 13 mm | 5/32", 3/16", 7/32", 1/4", 9/32";
- Long hex sockets: 4, 5, 6, 7, 8, 9 mm;
- Hex sockets: 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19 mm | 3/8", 7/16", 1/2", 9/16";
- Long hex sockets: 10, 11, 12, 13, 14, 15 mm.

#### STANDARD ACCESSORIES

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Main Unit



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# LATHE MACHINE

## MT-4410L



### Specification:

- 3-axis position indicator, X.pos 3.2 VC;
- 4-jaw face plate chuck  $\varnothing$  250 mm;
- Face plate  $\varnothing$  350 mm;
- Quick change tool holder head WB;
- Quick change tool holder
- Coolant system;
- Steady rest;
- Chip tray;
- Fixed splash guard (wall);
- Traveling cover for the tool post;
- Follow rest;
- Turret stop;
- Micrometer stop;
- Foot brake pedal;
- Chuck guard;
- Work light;
- Toolbox with operating tools;
- Dead center;
- Reducing Sleeve;
- Fixed stainless steel safety cover for tension and lead screw;
- Operator instructions.

#### STANDARD ACCESSORIES

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Main Unit



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# 100 KN COMPUTER UNIVERSAL TENSILE TESTING MACHINE

## MTS-201K

### Specification:

- Display: Computer Screen Digital Display;
- Weight: 100-500Kg;
- Oil Cylinder Position: Servo Motor Control;
- Effective Tensile Space: 750mm
- Deformation Resolution: 1/50000;
- Load Resolution: 1/300000
- Function 1: Tensile Testing Machine;
- Product Name: Computer Universal Tensile;
- Function 5: Deformation Testing Machine;
- Transport Package: Plywood Box;



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# UNIVERSAL MILLING MACHINE

MT-3507

## Specification:

- 3-axis position indicator X.Pos 3.2
- 2 long cutter arbors ( $\varnothing 22, \varnothing 27$  mm);
- Drill chuck 16 mm;
- Reducing sleeve ISO 40 / MT3 and ISO 40 / MT2;
- Coolant system;
- Work lamp;
- Operating tools Heat Exchanger for electric control cabinet Fully enclosed work space (without top cover);
- Electronic hand-wheel;
- USB port;
- Automatic central lubrication;
- Work lamp;
- 3-color signal lamp;
- Operating tools;
- Leveling bolts and blocks;
- 4th and 5th Axis  $\varnothing 200$  mm Rotary Table;



### STANDARD ACCESSORIES

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Main Unit



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# SPECTROMETER FOR FERROUS AND NON-FERROUS METALS

EM -142AS



## Specification:

- Carbon and sulfur analyzer and a spectrometer for analyzing metals and metal alloys (Fe, Cu, Al, etc.)
- Application Field: Foundry, Steel, Metallurgy, Metal;
- Wavelength Range:140~680nm;
- Detector: CCD
- Discharge Frequency:100-1000Hz
- Working Power:AC220V 50/60Hz 1200W

### STANDARD ACCESSORIES

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# METALOGRAPHY GRINDER AND SPECIAL POLISHING

## MT-749G



### Specification:

- Platen diameter: 8 pulg. [203 mm], 10 pulg. [254 mm], 12 pulg. [305 mm];
- Power: 0,64 kW, 5,6/2,78 A a 115/230 V CA.
- Dimensions (L x D x H): 19,7 pulg. x 25,6 pulg. X 17,7 pulg.

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# MICRO HARDNESS TESTING MACHINE WITH DOUBLE INDENTER (MICROHARDNESS TESTING MACHINE)

MT-884D



## Specification:

- Micro hardness testing machine with double indenter (Microhardness testing machine)
- Turret Automatic test : 10gf, 25gf, 50gf force;
- Test: 1HV~2967HV;
- Test HV/HK;
- Loading Automatic method (Loading/ Dwell/ Unloading),

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# 3 AXIS SURFACE GRINDING MACHINE

## MT-SG2

### Specification:

- Auto Down feed Increments: 0.0001" (10 Steps)
- Motor : 3 HP, 230/460V;
- 3 PH;
- Saddle Travel : 11.4";
- Spindle Center To Table : 21";
- Spindle Speed: 3,500 RP;
- Table Size: 10" x 20" Table Travel: 23.6";
- Vertical Graduation: 0.0005;
- Vertical Revolution: 0.1000";
- Wheel Size: 8" x 1" x 1-1/4"



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## BENCH VISE

MTS-2010



### Specification:

- Length: 444.9 mm;
- Width: 153.9 mm;
- Height: 171.5 mm;
- Stand Height 0.8m;
- Base dimensions: 170x280mm;
- Base dimensions: 170x280mm;
- The bench is entirely metallic.

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# BENCH LATHE

## MT-19013



### Specification:

- Turnable Diameter (mm) 320 Diam;
- Turnable on Car (mm) 198

### Characteristics:

- Length (cm) 168.00,
- Width (cm) 70,
- Height (cm) 128 without bench,
- Weight (kg) 540;

### Included Items:

- Bench with base of 1.80mx0.8m and height 0.7m,
- 5 cutting tool kits,
- 5 drilling tool kits,
- 5 Tool kits for sharpening,
- 5 lathe plates with chestnuts.

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# WELDING MACHINE MIG/MAG 195A MIG

## MT-19041

### Specification:

#### Built-in torch:

- Thermal protection;
- Cylinder support;
- Transport wheels;
- Power stages: 6 levels;
- Wire speed control;
- Wire diameter: 0.6 - 0.8 mm;
- Supports wire rolls of 1 to 5 kilos

#### Specifications:

- Power: 6.2 kVA;
- Frequency: 60 Hz;
- Current: 60 - 195A;
- Degree of protection: IP21;
- Voltage: 220 Volts single phase.



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# TIG WELDING MACHINES

## MT-19025J

### Specification:

- Rated Input Voltage: 220 V Max;
- Load Power Capacity: 6KVA
- Output Polarity: DC TIG;
- Rated Duty Cycle @40°C (TIG): 35%;
- Rated Output Current (TIG): 180 A;
- Rated Output Voltage (TIG): 17.5 V;
- Dimensions: 570\*335\*660MM
- Usage: Weld;
- Key Selling Points;
- Multifunctional Weight (KG): 47 KG;



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# TIG WELDING MACHINE

MT-19025J

## Specification:

- Welding inverter TIG Electrode 200A;
- Brax Welding Bivolt;
- Welding in the TIG process (16 to 200A): Copper, Titanium, Stainless Steel, Carbon Steel;
- In the process MMA electrode (20 to 170A): Welding with all types of electrode up to 4mm

## Characteristics:

- Process selection key;
- Heat protection;
- Precise current regulation;
- Internal gas opening solenoid



### STANDARD ACCESSORIES

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Main Unit



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# WELDING GAS HOSE PIPES

MT-411N



## Specification:

- Plastic Modling Type: Stamping;
- Processing Service: Cutting Product name: Acetylene hose;
- Material: Rubber;
- Color: Customized;
- Application: for welding and cutting equipment to transport;
- Oxygen/acetylene Specification: 3/16"-1";
- Length: Customized Length;
- Brand of name: Harmony;
- Certification: ISO9001-2008 CE;
- Working Temperature: -35°C - 90 °C;
- Feature: abrasion, weather and abrasion resistant.

### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# GAS REGULATOR

MT-196H

## Specification:

- Suitable gas: Oxygen/Acetylene/Propane/Nitrogen/CO<sub>2</sub>;
- Material: Aluminum;
- Inlet connection: G5/8 Male;
- Outlet connection: 6-8mm Hose Barb;
- Working pressure: 3.5bar;
- Max Inlet Pressure: 250bar/300bar;
- Color: Green/red/orange;
- Function: Gas Pressure Regulator



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# WELDING GAS CYLINDERS

## MT-462L

### Specification:

- Pressure: High;
- Material: Steel, HP295;
- Brand Name: Minsheng;
- Use: Acetylene;
- Certification: ISO 9001/ ISO4706/CE/TPED;
- Water Capacity: 40L;
- Color: Customer's Requirement;
- Limited filling Pressure: 1.56Mpa;
- Outside Diameter: 250mm;
- Filling weight: ≤7.2kg;
- Wall Thickness: 4mm;
- Height: 1040mm;
- Hydraulic test pressure: 5.2mpa gas-tight test pressure.



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# HELMET WELDING

## MT-832K

### Specification:

- Cartridge Size: 26X26X27 cm, 110\*90\*9mm;
- Sensitivity: Adjustable;
- Switch Time: 1/20000s;
- Power Supply: Solar lithium battery;
- Product Name: auto-darkening welding helmets;
- Feature: eye and face protection;
- Power Control: Auto Solar Welding Helmet;
- UV/IR Protection: DIN 16;
- Dark State: DIN9~13 (Adjustable);
- Delay time: 0.1-0.8s;
- View size: 100x93 mm;
- Material: PP;



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## LOT 7 CIVIL ENGINEERING EQUIPMENT

### MIXER

MTCT-107

#### Specification:

- Drum type mixer 150 litres 230V 50/60HZ



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# HYDRAULIC TENSION PRESS

## MTS-810



### Specification:

- Rebar testing; 3000 Kn

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# VIBRATOR

## MTCT-121



### Specification:

- Vibration electric,
- Portable,
- Electric.
- Tip dimensions: 25 mm dia. by 290 mm long.
- Flexible shaft 2 meters long.
- Frequency: 12000 vibr./minute.
- Amplitude: 0,65 mm
- Centrifugal force: 0,8 kN (80 kg)

#### STANDARD ACCESSORIES

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Main Unit



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# CYLINDER MOULDS

MTCT-113



## Specification:

- Steel 150 x 300

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## CUBE MOULD

MTCT-112



### Specification:

- Steel 150 x 150 x 150 mm

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# SPECIMEN CURING TANK

MT-650V



## Specification:

- Plastic;
- Capacity 500 l

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# AUTOMATIC COMPRESSION TESTERS FOR CUBES, CYLINDERS AND BLOCKS

**MTS-810**

## Specification:

- Automatic Compression Testers for Cubes,
- Cylinders and Blocks
- Capacity 3000 kN



### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# BALANCE

## MCM-M140



### Specification:

- Digital Balance 4500/3200G X 0,1/1G

# BALANCE

MTS-687

## Specification:

- Digital Balance 60KG X 1G



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# DENSITY BASKET

MTAT -11

## Specification:

- Dia. 200 mm by 200 mm,
- Cradle For Holding Concrete Specimens, and
- Digital Balance 800/5500G X 0,01/0,1G
- Height, Mesh Size 3,35 mm,
- All stainless steel made,
- With Specific Gravity Frame in Robust steel frame made,
- It incorporates on its lower part a platform,
- Adjustable in height,
- Holding a water container, and allowing the specific gravity test



### STANDARD ACCESSORIES

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# OVEN

## JEQ-3A

### Specification:

- Oven 220 Litres,
- Forced Ventilation, With 2 Grid Shelf
- Sturdy manufacture,
- Double walled with 60 mm
- Thick glass fibre for thermal insulation.
- Temperature from ambient to 200°C. is controlled by a digital precision thermoregulator indicator.
- The oven is equipped of a dual safety thermostat with higher thermic threshold to prevent accidental over-temperatures, and to ensure safe working conditions.
- Capacity 220 L



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# SIEVES SET

## MCML-94

### Specification:

#### Sieve Dia. 8" Opening:

- 0,200 MM, 0,212 MM, 0,250 MM, 0,300 MM, 0,315 MM, 0,355 MM,
- 0,400 MM, 0,405 MM, 0,500 MM, 0,600 MM, 0,630 MM, 0,710 MM,
- 0,800 MM, 0,850 MM, 1,000 MM, 1,180 MM, 1,250 MM, 1,400 MM,
- 1,600 MM, 1,700 MM, 2,000 MM, 2,360 MM, 2,500 MM, 2,800 MM,
- 3,150 MM, 3,350 MM, 4,000 MM, 4,750 MM, 5,000 MM, 5,600 MM,
- 6,300 MM, 6,700 MM, 7,100 MM, 8,000 MM, 9,500 MM,
- 10,0 MM, 11,2 MM, 12,5 MM, 13,2 MM,
- 14,0 MM, 16,0 MM, 19,0 MM, 20,0 MM,
- 22,4 MM, 25,0 MM, 25,4 MM, 26,5 MM,
- 28,0 MM, 31,5 MM, 37,5 MM, 40,0 MM,
- 45,0 MM, 50,0 MM, 53,0 MM, 56,0 MM,
- 63,0 MM, 75,0 MM, 80,0 MM, 90,0 MM,
- 100,0 MM, 106,0 MM, 125,0 MM
- Lid For Sieves Dia.8 "
- Receiver For Sieves Dia. 8"



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# SIEVE SHAKER

MTAT-04

## Specification:

- Double effect electromechanical sieving
- High sieve capacity
- For sieves up to 450 mm dia.
- Ergonomic and fast clamping system
- Timer function included



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# LOS ANGELES ABRASION MACHINE

MTAT-01



## Specification:

- High stiffness welded steel frame
- High resolution graphical display 128x80 pixels and 6 keys membrane keyboard
- 8 languages can be set: Italian, English, French, Spanish, Polish, Portuguese, Romanian and Cesky
- Double test procedure: it is possible to set the target revolutions / drops or the total working time
- The machine can be mounted inside a noise reduction and CE compliant safety cabinet with door opening switch

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# AGGREGATE SAMPLE SPLITTER

MTS-17889



## Specification:

- Sample Splitter Opening 1/4 " ; 1/ , 2",3/4" , 1" , 1 1/2" , 2" , 2 1/2" and
- Large Capacity Sample Splitter

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# BULK DENSITY CYLINDRICAL MEASURES SET

P-B7A



## Specification:

- Calibrated Cylindrical Measures of sheet iron with handles.
- Capacities available 3, 5, 7, 10, 15, 20 & 30 liters.
- Complete with One Tamping Rod 16 mm dia x 600 mm long.

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# SHAPE INDEX CALIPER

MCM-M105A



## Specification:

- Measurement range is 200 mm and
- Graduated with 0.05 mm increments

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# AGGREGATE CRUSHING VALUE APPARATUS

MTS-404C



## Specification:

- Cylindrical Container 150 mm +/-0.5 mm dia x 130 mm to 140 mm
- High with base plate 200 to 230 mm/sqr x 6 mm thick.
- A Plunger of 148 mm +/-0.5 mm dia x 100 to 115mm high.
- With Tamping Rod, 16 mm dia x 600 mm long, both ends rounded, 1 no.
- Metal Measure 115+/- 0.5 mm dia x 180 +/- 0.5mm high

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# FERROSCAN (REBAR DETECTOR)

MTS-596



## Specification:

- Max. detection depth for object
- Localization: 200 mm
- Localization accuracy: 1% +/-3mm mm
- Minimum distance between two neighboring objects: 30 mm

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# REBOUND HAMMER (ORIGINAL SCHMIDT)

MTCT-110



## Specification:

- Impact Energy
- 2.207 Nm (N), 0.735 Nm (L)
- Compressive Strength Range 10 to 70 N/mm<sup>2</sup>
- Display Mechanical display

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# AUTOMATIC MATERIAL TESTERS

## MTCT-20C

### Specification:

- Minimal tension force: 5 kN.
- Maximum tension force 25 kN.
- Applications: Tension,
- Compression, Flex/Bend, Shear.
- Test specimens: Ceramics; Metals; Polymers.



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# TRIAxIAL SHEAR TESTING EQUIPMENT

## MTST-36



### Specification:

- Triaxial Shear Testing equipment for determining the shear strength parameters of soils through the following tests:
- Consolidated Drained (CD),
- Consolidated Undrained (CU),
- Unconsolidated Undrained (UU) and Unconfined Compression (UC).

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# AUTOMATIC CBR AND MARIS TEST MACHINE

## MTST-16

### Specification:

- Automatic CBR and Maris Test Machine for performing laboratory evaluation of the CBR value of highway sub-bases and sub- grade
- Determination of the strength and determine the maximum load and flow values of bituminous mixtures.



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# SPECIFIC GRAVITY FRAME AND BASKETS WITH A SUITABLE ELECTRONIC BALANCE

MTSD-409



## Specification:

- Specific Gravity Frame and Baskets with a suitable electronic balance for specific gravity determination of fresh and hardened concrete and aggregates.

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# AGITATOR / DISPERSER

MTBA-23



## Specification:

- Soil Dispersion Mixer for dispersing soil suspensions used in sedimentation (hydrometer) tests.

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# DOSIMETER

MT-172R



## Specification:

- Dosimeter to measure ionizing radiation exposure via alpha or beta particles, neutrons, gamma rays, or x-rays)

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# SHEAR BOX TEST MACHINE

MTST-08



## Specification:

- Shear box apparatus for performing stress and strain controlled direct shear test of soil specimens.
- User interface with touch screen color display for numerical and graphical plotting of the readings.
- Three analogue channels , one for load cell and two for displacement transducers;
- High stiffness load chain shear box - driving head - load cell;
- USB pen drive for unlimited storage capacity and TXT format data output;
- Adjustable speed and travel (forward and reverse) for residual shear test;
- Adjustable number of cycles;
- Specific and independent data recording for consolidation and failure stages.

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# THREE FRONT LOADING OEDOMETERS FITTED ON CONSOLIDATION BENCH

MTS-440A

## Specification:

- Three front loading oedometers fitted on consolidation bench,
- Complete with consolidation cells,
- Displacement transducer,
- Data acquisition system and weights.



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# LABORATORY DRYING OVENS

JEQ-3A1



## Specification:

- Laboratory drying ovens for sample preparation and conditioning of materials such as soil, rock, aggregate, concrete, cement, asphalt and bitumen.

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# DYNAMIC CONE PENETROMETER

MTST-09

## Specification:

- Dynamic Cone Penetrometer to obtain a direct evaluation of the “in-situ” strength properties of road pavement layers and light field exploration.
- Model features: Motor- operated equipment;
- Portable; 8 kg dropping weight with 575 mm drop;
- Two (02) penetration tip 60° cone, 20 mm diameter;
- Six (06) drive rod of 1 meter long;
- Vertical scale; Wrench carrying case;



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# MOTORIZED SOIL EXTRUDER

## MTST-10AS



### Specification:

- Motorized soil extruder to remove soil samples from sampling tubes in accordance with International applicable Standards.

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# NUCLEAR DENSITOMETRY

MT-259J

## Specification:

- Nuclear densitometry (Moisture density gauge) to measure the moisture and density of soils, aggregates cement, and lime treated material and to measure the density of asphalt concrete in accordance with all applicable International Standards.



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# CONE PENETROMETER

MTST-04

## Specification:

- Liquid Limit Devices (Cone Penetrometer Devices) for determination of the moisture content at which clayey soils pass from a plastic to a liquid state and indirect determination of undrained shear strength.



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# PHOTOMETERS (PREFERABLY HANDHELD)

## EM -142A

### Specification:

- Accurate set of Photometers (preferably handheld) with 2-way communication with a Bluetooth® Smart (4.0) Apple or Android smartphone/tablet for the parameters indicated below, including 500 reacting stripes for each parameters.
- Alkalinity, Total, Bromine, Total, Chloride (as Salt), Chloride High (as Salt), Chlorine Dioxide, Chlorine, Combined, Chlorine, Free, Chlorine, Total High, Chlorine, Total, Chromium (VI)
- Copper, Cyanuric Acid II, Cyanuric Acid III, Hardness, Calcium - Marine, Hardness, Calcium - Salt Pool, Hardness, Calcium - Drinking, Hardness, Total HR, Hardness, Total LR, Hydrogen Peroxide, Hydrogen Peroxide HR, Hydrogen Peroxide LR, Iodine, Iron, Total (Fe+2 / Fe+3), Manganese, Metals (+2 Valence), Molybdate, Nitrate (as NO<sub>3</sub>) - Fresh, Nitrate (as NO<sub>3</sub>) - Marine, Nitrite (as NO<sub>2</sub>), Ozone, Peracetic Acid, Peracetic Acid LR, Permanganate, pH, pH- Acid, pH- Alkali, Phosphate, Sodium Bromide, SPA Alkalinity, Total, SPA Bromine, Total, SPA Chlorine, Combined
- SPA Chlorine, Free, SPA Chlorine, Total, SPA Cyanuric Acid, SPA Hardness, Calcium, SPA pH, Sulfate (SO<sub>4</sub>), Sulfide (as S<sub>2</sub>-), Turbidity.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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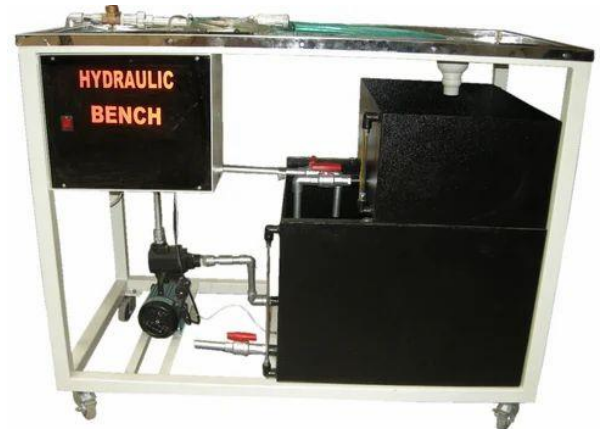
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# COMPACT HYDRAULIC EQUIPMENT FOR EXPERIMENTS RELATED TO FLOW UNDER BRIDGES AND CULVERTS

MT-101428



## Specification:

- Compact hydraulic equipment for experiments related to flow under bridges and culverts.
- Dimensions: Compact size.
- Flow capacity: Minimum flow rate of 10 liters per minute
- Pump type: Hydraulic pump with a power rating of 0.5 horsepower
- Measurement capabilities: Integrated flow sensors with an accuracy of  $\pm 1\%$
- Control system: User-friendly control panel with a digital display
- Material: Stainless steel construction for durability and corrosion resistance
- Safety features: Overload protection, emergency stop button, and safety guards
- Compatibility: Can be connected to a data acquisition system or computer for data logging
- Power supply: Operates on standard 220V AC power.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.

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# COMPACT HYDRAULIC EQUIPMENT FOR TESTING OF PUMP ASSOCIATION

MT-286R



## Specification:

- Compact hydraulic equipment for testing of pump association (parallel/series).
- Dimensions: Compact size.
- Hydraulic power source: Electrically driven hydraulic pump with a power rating of 0.5 horsepower
- Pump association testing: Capability to test pumps in parallel and series configurations
- Pressure range: Adjustable pressure range up to 10 bar (or as per requirement)
- Flow rate: Adjustable flow rate up to 10 liters per minute (or as per requirement)
- Pressure measurement: Integrated pressure gauges with accuracy within  $\pm 1\%$
- Flow measurement: Integrated flow meters with accuracy within  $\pm 1\%$
- Electrical installation: Compatible with standard 220V AC power supply
- Control system: User-friendly control panel with digital displays for pressure and flow
- Safety features: Overload protection, emergency stop button, and safety guards
- Data logging: Capability to connect to a data acquisition system or computer for data recording and analysis.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.

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# PORTABLE PIPE WELDING KIT FOR PPR PIPES

MT-28032



## Specification:

- Portable pipe welding kit for PPR pipes including accessories for pipe fitting and repair demonstration, and cutting tools.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.

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# COMPACT HYDROLOGICAL EQUIPMENT FOR SOIL INFILTRATION LAB TESTING

MT-315N

## Specification:

- Compact hydrological equipment for soil infiltration lab testing,
- Including piezometers, screens, flowmeters.



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# PORTABLE THREADING MACHINE

MT-28002

## Specification:

- Portable threading machine for different diameters, for PPH pip.
- The equipment is include all accessories,
- Consumables and other elements required for proper its functioning.es and other polymer pipes,
- Including all accessories for pipe fitting and repair demonstration, and cutting tools



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# JAR TEST KIT FOR WATER QUALITY

P-J2

## Specification:

- Jar test kit for water quality.
- Number of Stirring Positions: 4-6 positions.
- Stirring Speed: Adjustable (20-300 RPM).
- Stirring Mechanism: Magnetic/mechanical.
- Sample Capacity: 250 mL - 1 liter per position.
- Timer Function: Included/compatible with external timers.
- Display and Controls: User- friendly display, intuitive controls.
- Material and Construction: Chemically resistant, durable.
- Safety Features: Splash guards, non-slip surfaces, secure sample holders.
- Compatibility: Accessories (pH meters, conductivity meters, turbidity meters).
- Power Supply: 220V.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# KIT OF PERSONAL PROTECTIVE EQUIPMENT INCLUDING LAB COAT OR APRON

MTME-60



## Specification:

- Kit of personal protective equipment including Lab Coat or Apron: Durable fabric, adjustable size, full-length coverage,
- Safety Glasses or Goggles: Impact-resistant lens, wrap-around style, adjustable fit,
- Gloves (nitrile or latex): Chemical-resistant material, available in various sizes,
- Face Shield: Clear, impact-resistant material, full-face coverage, adjustable headband,
- Respirator for chemicals: Half-face or disposable type, chemical-specific filter, adjustable straps,
- Hearing Protection: Earplugs or earmuffs, suitable noise reduction rating (NRR).
- The equipment is include all accessories, consumables and other elements required for proper its functioning.

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# NON-INTRUSIVE ULTRASONIC FLOWMETER FOR PIPE DISTRIBUTION NETWORK

MT-162C

## Specification:

- Non-intrusive ultrasonic flowmeter for pipe distribution network.
- Flow Range: 0.1- 10,000 liters per minute
- Pipe Size Compatibility: 15-500 millimeters
- Accuracy:  $\pm 1\%$  of reading
- Transducer Type: Clamp-on transducers
- Display: Backlit LCD screen
- Data Logging: Internal memory for storing up to 1,000 measurements
- Communication Interfaces: USB, Bluetooth
- Power Source: Rechargeable battery with at least 8 hours of continuous operation
- Operating Temperature Range:  $-10^{\circ}\text{C}$  to  $50^{\circ}\text{C}$
- Portable and Lightweight: Weighs less than 1 kilogram
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# PRESSURE AND LEAK TESTING EQUIPMENT FOR PIPES

MT-139I



## Specification:

Supply and delivery (to UEM-FE address) of Pressure and leak testing equipment for pipes, with the following items:

- Pressure testing pump: Maximum pressure capacity of 1000 psi (69 bar) with built-in pressure gauge.
- Pressure gauges: Range of 0-1000 psi (0-70 bar) for accurate pressure measurement.

## Leak Detection Equipment:

- Leak detection device: Sensitivity to detect leaks as small as 0.1 gallons per hour (0.38 liters per hour) with audible and visual alarms.

## Compact Design:

- Portable and lightweight equipment for easy transport and setup.
- Compact size for space-efficient storage in the lab.

## User-Friendly Features:

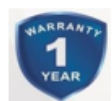
- Easy-to-use controls and interfaces for convenient operation.
- Quick setup and minimal training required.

## Safety Features:

- Built-in safety mechanisms to prevent over-pressurization and ensure operator safety.
- Pressure relief valve for controlled pressure release.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.

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# BURSTING TEST APPARATUS FOR PIPES

MT-763L

## Specification:

### Bursting Test Apparatus for Pipes:

- Suitable for various pipe sizes and materials
- Pressure capacity: Up to 70 bar
- Built-in pressure gauge for accurate measurements
- Safety relief valve for operator safety
- Compact and portable design for lab use.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# WASTEWATER SEDIMENTATION TEST EQUIPMENT

MTS-907

## Specification:

### Wastewater Sedimentation Test Equipment:

- Suitable for laboratory-scale sedimentation testing
- Capacity: 10,000 mL (adjustable)
- Variable settling rates for different sedimentation conditions
- Built-in timer for precise measurement of settling time
- Transparent sedimentation column for easy observation
- Compact and space-saving design Material: corrosion-resistant materials (e.g., acrylic, stainless steel)
- Power supply: 220 V.
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# IMPACT TESTING EQUIPMENT

## MTAT -03

### Specification:

#### Impact Testing Equipment for Pipes:

- Type: Charpy/Izod Impact Tester
- Impact Energy Range: 1 - 50 Joules
- Test Specimens: HDPE and other polymer pipes
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# CHEMICAL RESISTANCE TESTER

MT-785Q

## Specification:

### Chemical Resistance Testing Equipment:

- Supply and delivery (to UEM-FE address) of Chemical resistance tester.
- Type: Chemical Resistance Tester
- Test Method: Immersion or exposure to specified chemicals
- Test Specimens: HDPE and other polymer pipes
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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# COMPACT PIPE WALL DENSITY TESTING KIT

## MCM-M139K

### Specification:

#### Compact Pipe Wall Density Testing Kit with:

- Density Balance (Capacity: 500 g)
- Readability: 0.01 g
- Units: grams (g)
- Power Supply: Battery or AC adapter)
- Digital Caliper (Measurement Range: 0-150 mm)
- Accuracy: 0.01 mm
- Resolution: 0.01 mm Power Supply: Battery)
- Cutting Tool (Suitable for cutting HDPE, PVC, and other polymer pipes)
- Material: Stainless steel)
- The equipment is include all accessories, consumables and other elements required for proper its functioning.



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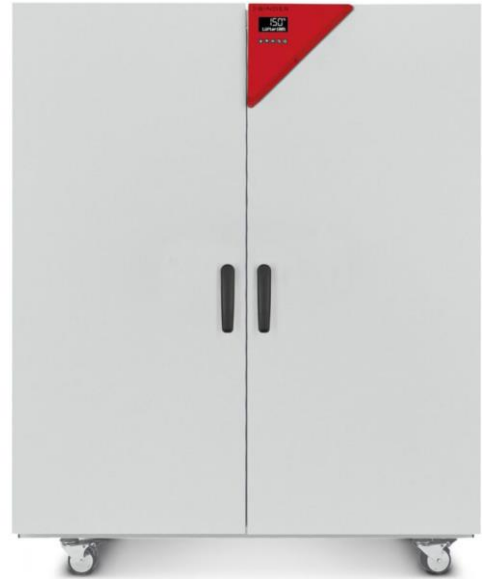
# LABORATORY DRYING OVENS

## JEQ-3A1

S

### Specification:

- 780 liters. 10-D1398/Z
- 220V. 60Hz. 3 Ph.
- High-precision oven with digital PID;
- Temperature control system.
- Stainless steel internal lining.
- Fully conforming to the main international Standard.
- Max. temperature 200°C; Air convection.



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# MOTOR OPERATED DYNAMIC CONE PENETROMETER

## MT-280L

### Specification:

- Portable;
- Hand-operated equipment;
- To obtain a direct evaluation of the “in- situ” strength properties of road pavement layers;
- The DCP has been correlated with CBR (California Bearing Ratio - Kley 1975);
- Field calibration of a portable dynamic cone penetrometer was made to determine a penetration resistance relationship with the standard penetration resistance;
- The penetrometer has been found useful in the inspection of footing foundations and for light field exploration where the standard penetration range of limits is generally known;



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# MOTORIZED SOIL EXTRUDER

## MTST-10AS

### Specification:

#### Motorized soil extruder.

- Power: 750 W. Maximum loading;
- Capacity: 60 kN. Maximum ram;
- Stroke: 900 mm. Maximum;
- Working ram speed: 6 mm/sec;
- Maximum external diameter of sample tubes: 160 mm. 230 V, 50 Hz, 1 ph.



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# MOISTURE DENSITY GAUGES

## MT-259J



### Specification:

- Features: Direct readout of wet density, dry density, moisture, % moisture, % voids, and % compaction; Moisture, density, and trench offsets to adjust gauge measurements;
- Measurement data storage in all gauges;
- Powered by rechargeable NiMH batteries or backup alkaline batteries;
- Larger 4-line x 20-character display screen;
- Backlit LCD screen.
- Nomograph method for measurement of asphalt overlays;
- Automatic measurement record storage;
- Remote start keypad on top of handle;
- Loud external beeper to indicate end of a count;
- Optional GPS (global positioning system) function);
- Reports latitude and longitude of measurement location at completion of reading;
- USB port for data transfer via removable flash memory thumb" drive) or USB printer;
- Automatic indexing - Gauge senses the depth of the source rod automatically;
- Backlit keypad for viewing in dimly lit jobsites.

#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# LIQUID LIMIT (CONE PENETROMETER DEVICES)

MTST-04

## Specification:

- For determination of the moisture content at which clay soils pass from a plastic to a liquid state and determination of undrained shear strength.
- Cast iron base with leveling feet;
- Digital penetration measurement gauge 0.01 mm precision.
- Micrometer vertical adjustment device;
- Automatic zeroing;
- Electronic release mechanism.



### STANDARD ACCESSORIES

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# TOTAL STATION

## MTSE-08



### Specification:

- Robotic Total Station Package
- Scout-Yes.
- TRack-Yes.
- AiM-Yes;
- Angle Measurements- Accuracy: 1" (0.3 mgon), 2" (0.6 mgon), 5" (1.5 mgon).
- Display Resolution-0.1" (0.1 mgon);
- Method-Absolute, continuous, diametrical; Compensation-Quadruple axis;
- Telescope Magnification- 30x;
- Distance Measurements - Prism- Range;
- Accuracy Time-Standard mode: 3500 m / 1 mm + 1.5 ppm / typ. 0.8 sec\* and
- Long mode: >10,000 m / 5 mm+2 ppm / typ. 2.5 sec;
- Distance Measurements- Reflectorless- Range Accuracy Time-accXess5/ accXess10 500 m / 1000 m2 mm + 2 ppm\*\*typ, 3 sec;
- Precise Capture- 8x20 mm at 50 m;
- Motorization-Technology: Hybrid Drives;
- Scout (Range)-300 m at round prism;
- Track-800 m at around prism (Range), 90 km / h at 100 m (Max Speed);
- AiM-1000 m at round prism (Range), 1" (Hz/V);
- Image Processing (Technique)
- Range: 5 m at 150 m.
- Accuracy-5 cm at 150 m;
- Interface-Keyboard: Two full alphanumeric; 35 keys;
- Illuminated (2nd optional);
- Display: Full VGA 640 x 480 colour and touch with LED backlight;
- Data recording: 1 GB internal memory;
- Removable SD card and USB stick; Ports-Serial; USB;

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- Internal Bluetooth, long-range;
- Bluetooth handle and external power;
- Operating System: Microsoft Windows CE 6.0;
- Physical Specifications: Weight- 5.0 - 5.3 kg(w/o battery and tribrach);
- Operating/Storage Temperature -20°C to 50°C / -40°C to +70°C;
- Protection Class-IP55 dust and waterproof rating;
- Humidity-95%, non-condensing.
- Power Supply-Internal Battery: Removable Li-Ion 4.4 Ah/7.4 V
- Operating Time: 7-10 h;
- Plummet: Type: Laser point, adjustable brightness;
- Accuracy: 1.5 mm at 1.5 m instrument height.

**STANDARD ACCESSORIES**

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# RECEPTOR DIFFERENTIAL

## MT-300I

### Specification:

- GNSS (RD)
- CHCNAV's i50 GNSS receiver delivers speed and accuracy;
- CHCNAV LandStar 7 Field Software and HCE320 Android Controller;
- With GPS signals.



#### STANDARD ACCESSORIES

Instruction Manual  
Main Unit



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# ELECTRIC THEODOLITE, FOR CIVIL AND SURVEY, USAGE/APPLICATION CIVIL AND SURVEY

MTSE-02



## Specification:

- Electric Theodolite,
- For Civil And Survey,
- Usage/Application Civil and Survey.

### STANDARD ACCESSORIES

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# ALUMINUM SPIRIT LEVELS BIG X 80

## MTSE-55



### Specification:

- Material: Aluminum.
- Measuring tolerance: standard position 0.50 mm/m (0.029°);
- Measuring tolerance: inverted measurement 0.75 mm/m (0.043°).

#### STANDARD ACCESSORIES

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# LASER DISTANCE METER

## MTSE-04

### Specification:

- Measurement range: 0.05 m to 50 m.
- Accuracy:  $\pm 1.5$  mm;
- Resolution: 1 mm.
- Laser: class 2.
- Laser type: 635 nm, < 1 mW.
- Auto shut-off: after 180 s;
- Continuous measurement (tracking function): yes.
- Addition/subtraction: yes.
- Pythagoras test (2 points): yes.
- Protection: IP54. Memory: yes, the last 20 values.
- Power: 2 x AAA batteries;
- Battery life: up to 5000 measurements.
- Storage temperature: -10 ... 60 °C;
- Operating temperature: 0 ... 40 °C.



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# 100M TAPE MEASURE

## MCM-M128

### Specification:

- Tape Length: 100m.
- Tape Width: 10mm.
- Measurement Units: Metric single sided.
- End Connection: Dual riveted end hook.



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