

## INSTRUMENTATION SPECIALS INTRODUCING MTI



KSL1100XS220

### 1100C Compact Muffle Furnace (4"x4"x5") w/ Programmable Temp. Controller

KSL-1100X-S-UL-LD is a compact muffle furnace that offers 4"x4"x4" high-purity fibrous alumina chamber, gas inlet and outlet ports, and a 30-segment, programmable temperature controller. It is the ideal muffle furnace for preparing small-sized samples using temperatures up to 1100°C in material research and dental labs with maximum energy saving (500 - 700W only). In addition, the compact furnace can be placed into a glove box to sinter or dry samples in a vacuumed or controlled atmosphere.

**FIRST TIME  
 OFFER  
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- ⇒ Operating Temp: 200 °C - 1000°C max continuously, 1100°C max for an hour
- ⇒ Max Heating Rate: 30 °C /min



OTF1200XS25V220

### 1200C Compact Split Tube Furnace (8" heating zone) w/ Vacuum Flanges & Optional Tube Size

OTF-1200X-S is a compact split tube furnace with a max working temperature of 1200°C. The furnace can adopt either a 1", 2" or 2.36"(60mm) O.D quartz tube (optional) with a pair of stainless steel vacuum sealing flanges, which allows heating samples in the vacuum or flowing gas. The built-in precision temperature controller can provide up to 30 segments of heating and cooling steps with +/- 1 °C accuracy.

**FIRST TIME  
 OFFER  
 CONTACT US**

- ⇒ Max Temp: 1200°C (<1 hour)
- ⇒ Continuous Temp: 1100°C (continuous)
- ⇒ Max. Heating Rate: ≤ 10 °C/min



KSL1200X

### 1200C Muffle Furnace (12" x 8" x 5", 7.2L) with Vent Port & Quartz Window

KSL-1200X is a compact muffle furnace that offers 12" x 8" x 5" heating chamber with an observation window and a 30 segments programmable temperature controller. It is the ideal muffle furnace for preparing samples with temperatures up to 1200°C in research and materials labs with maximum energy saving.

**FIRST TIME  
 OFFER  
 CONTACT US**

- ⇒ Max Working Temp: 1200°C Max continuously
- ⇒ Stability: +/- 0.5°C @ 1000°C
- ⇒ Max Heating Rate: 30°C/ min.



GSL1500X50

### 1500C Max. Compact Tube Furnace (2" O.D ) with Complete Accessories - GSL1500X50

GSL-1500X-50-UL is a compact high temperature 2" O.D tube furnace using 99% High Purity processing tube and SiC heating elements. Vacuum sealing assembly is included to connect with 1/4" gas hose. The temperature of GSL1500X50 tube furnace is controlled by high precision SCR (Silicon Controlled Rectifier) digital controller with accuracy +/-1°C and 30 segments programmable up to 1500°C.

**FIRST TIME  
 OFFER  
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- ⇒ Working Temp: 1500 °C (< 1 hour)
- ⇒ Continuous Temp: 1400 °C

## INSTRUMENTATION SPECIALS INTRODUCING MTI



MSKSFM3II

### Dual Shaft Programmable Rotary & Shaker Ball Mill w/ 4 Jars

MSK-SFM-3-II is a dual shaft high-energy ball mill with 3D movement which can mill two types of powder into nanoscale at the same time. It has a high impact force created by three-dimensional movement, e.g. rotation, vibration, and oscillation with frequencies up to 1000 RPM. The 24VDC motor is built-in with the separated and programmable control unit, which can be operated inside a glovebox with Argon gas.

**FIRST TIME OFFER CONTACT US**

- ⇒ Dual jar design for milling two types of samples at the same time.
- ⇒ The 24VDC motor allows use in an Ar gas environment. RPM with the separated control unit.



MSKMR100DC

### 4" Width Electric Cold Roller Press with Optional Ceramic and PTFE Rollers

MSK-HRP-MR100DC is a UL/CSA ready electric rolling press with variable speed 24VDC gear motor and UL certified switch power supply, which can be used from 110V- 220VAC under Argon gas glovebox. It has dual rollers of 100 mm Dia. x 100mm width and is an ideal rolling press for preparing electrode sheets for Li-Ion batteries research after coating and drying. (Since 29/11/2016, MR100DC ceramic coated roller option is available.)

**FIRST TIME OFFER CONTACT US**

- ⇒ Rolling Speed: 5-40mm/s or 0.3 - 2.4 Meters per minute adjustable.
- Digitally controlled with constant power output.



MSK-AFA-III-THB

### Compact Tape-Casting Coater with Vacuum Chuck (200 mm W x 365 mm L) & Film Applicator & Optional Heater

MSK-AFA-III is a compact tape-casting coater with various heating designed to produce films with consistent thickness. It has a unique driving system to produce a smooth coating on all types of materials. The flat vacuum chuck is built in to hold the substrate sheet in place. One 100 mm width adjustable micrometer applicator (doctor-blade). The heating plate with the digital controller either on top or bottom is optional for drying up to 100°C with +/-1°C temperature accuracy. This equipment can be used by researchers on ceramic tape castings and Li-Ion battery electrode coating.

**FIRST TIME OFFER CONTACT US**

- ⇒ Traverse Speed: 10 - 100 mm/sec variable
- Accuracy: ± 5-10 mm/sec



SYJ150

### Digital Low Speed Diamond Saw with 4" Cutting Blades & Complete Accessories

SYJ-150 is a low-speed diamond saw, which equips with an advanced digital micrometer and a digital speed display controller, it is the perfect tool for cutting/dicing/slicing all kinds of materials up to 32.5 mm thickness, especially for brittle crystals, ceramics, TEM samples, and even plastic samples. Also, this saw can be used for cutting cylindrical cells for failure analysis.

**FIRST TIME OFFER CONTACT US**

- ⇒ Working Temp: 1500 °C (< 1 hour)
- ⇒ Continuous Temp: 1400 °C (continuous)