CIANFLONE® SCIENTIFIC
A KTC Instruments Company

PORTAMELT® XT

ELECTRIC ARC BUTTON REMELT FURNACE
SMALL SIZE MASSIVE IMPACT

With a spark of innovation, the improved PORTAMELT® features an upgraded design to allow an extended duration of continuous melts. This will enhance the overall performance for your melting needs.

PRODUCT OVERVIEW

The PORTAMELT® XT Electric Arc Button Remelt Furnace is used to prepare solid metal samples from odd shape materials and will melt alloys up to 3600° F.

- The intense heat from the arcs force creates a homogeneous alloy ready to be analyzed.
- A 50 gram steel charge yields a sample of approximately 1-1/4" diameter and 1/4" thick.
- The sample material can be slugs, cuttings, drillings, powders, or similar materials.

The PORTAMELT® XT is the perfect low cost, low maintenance solution to produce homogeneous sample buttons for spectrographic elemental analysis and alloy research.

SPECIFICATIONS

- Enhanced continuous use
- Melting times are one minute or less
- Anodes available in carbon graphite and tungsten
- Water-cooled copper crucible is tiltable for easy sample removal
- Vacuum to reduce gas use and assure clean melting process
- Sample is melted and cooled safely under gas pressure
- Uses argon gas

COMMON INDUSTRY APPLICATIONS

- Welding, Recycling, Scrap Metal
- Abrasives / Cleaning
- Purity Measurement
- Manufacturing
- Quality Control and Inbound Purchasing
- Powder Melting
- High Purity Melts

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WORLDWIDE APPLICATION

Companies worldwide depend on Cianflone Scientific to provide efficient and effective portable elemental analysis, coating thickness measurements and sample preparation.

PORTAMELT® XT SPECIFICATIONS

Range of metals and alloys that can be remelted	**METAL TYPE** Aluminum Copper Steel Titanium Chromium Alloys	**TEMPERATURE** 1220˚ F 1983˚ F 2600˚ F - 2800˚ F 3040˚ F 3380˚ F Up to 3600˚ F
Copper Crucible Loads	**LOAD IN GRAMS** 50 72 86 100	**BUTTON DIAMETER** 1-1/4" 1-1/2" 1-5/8" 1-3/4"
Melting Time	Most high temperature alloys are in the order of 50-60 seconds	
Power Source	400 to 600 amps DC welder would be suitable to melt most alloys *500 amp DC welder optionally available	
Additional Requirements	**ACCESSORIES** Vacuum pump, 7 CMF Two-stage argon gas regulator Spare anodes & bushings Anodes available in carbon graphite or tungsten	**VOLTAGE REQUIRED** 115-230
New Design & Features	Improved Overall Design Increases PORTAMELT® XT Durability Better Performance Saves Time with a Greater Frequency of Consecutive Melts	